

NAVAL HEALTH RESEARCH CENTER

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OTHER THAN WAR (OOTW):
DETERMINING UNIQUE PATIENT CONDITIONS,
CLINICAL TASKS, AND SUPPLIES***

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SUMMARY

Problem

Operations other than war (OOTW) and combat scenarios differ in doctrinal, cultural, political, personnel, and logistical aspects. Relying on the parameters of combat scenarios to plan medical requirements for OOTW missions might result in overstocking of some supplies and equipment while underestimating the requirements for others.

Objective

The goal of this study was to identify those diseases and injuries that occur during OOTW but not during combat operations, and to link them to corresponding treatment tasks and supply requirements. The ultimate objective of this research effort was to add an OOTW component to the Estimating Supplies Program (ESP), thus enhancing its value as a planning tool.

Approach

A literature search was conducted to find published disease and injury statistics representing a variety of OOTW scenarios, and this information was organized to form a database. Researchers compared the OOTW diagnoses with diseases and injuries that were already defined in the ESP model. The OOTW diagnoses that could not be matched to established codes were determined to be unique to OOTW. Researchers defined treatment protocols for these unique OOTW diagnoses. Medical subject matter experts were consulted for more-complex treatments. The clinical tasks that would be performed during treatment and the supplies required to accomplish these tasks for each OOTW patient condition (PC) were identified.

Results

The literature search produced 19 sources that included disease and injury information for OOTW. To organize these statistics, PCs used in ESP were identified either as trauma or nontrauma. The trauma PCs were divided into 18 categories, while the nontrauma PCs formed 20 categories. There were 15 OOTW diagnoses that did not match already-existing PCs, and all of them were nontraumatic. In addition, 22 new clinical tasks were introduced. Five of the tasks require no supplies, and six require no new supplies. Eight of the tasks introduce a total of 15 new items to the supply database. The three tasks related to eye surgery require extensive, specialized consumable supplies and equipment that are suggested as a supplement to the operating room setup that is already in place.

Discussion

Determining OOTW PCs and linking them to the clinical tasks and supply requirements that comprise treatment protocols is the basis for creating a planning module for ESP. To continue the process, a patient stream must be developed. In this report, the diagnoses were classified by type rather than by frequency to determine which diseases and injuries are unique to OOTW. Additional research is needed to quantify populations at risk and to calculate rates of occurrence for humanitarian assistance, disaster relief, and peacekeeping.

Medical Planning for Operations Other Than War (OOTW): Determining Unique Patient Conditions, Clinical Tasks, and Supplies

Background

The determination of medical requirements for military operations is an ongoing process. Planners consider the scenario, operational factors such as the geography and intensity of the mission. Medical factors they scrutinize include projected rates of injuries and diseases that are likely to affect US forces. In 1985, the joint services launched Deployable Medical Systems (DEPMEDS), a modular system designed to facilitate medical resource planning by allocating the supplies, equipment, and personnel required to provide treatment to an anticipated array of casualties falling within 319 patient conditions (PCs).¹

Each PC represents an injury or illness that might occur during a combat scenario. Because they are used to determine the personnel, supplies, and equipment needed to treat them, PCs are quite descriptive. This level of detail enables DEPMEDS to incorporate medical factors, such as the severity, physical location, or other manifestations of the injury or disease, and these are reflected when planning for medical requirements.

The Naval Health Research Center (NHRC) has been conducting research into the planning aspect of medical operational readiness since 1994. NHRC researchers devised a standardized procedure to review and update the Fleet Marine Force Authorized Medical Allowance Lists (AMALs). This protocol links each PC with the tasks that are performed to treat it and the supplies needed to perform each task. A computer model generates updated AMAL lists that eliminate obsolete or overstocked items, and integrate upgraded supplies and equipment, thus keeping the AMALs current. In addition, the logistical footprint, or the weight and cube of the AMAL, is kept to a minimum. In fact, the footprint for AMALs reviewed by NHRC has been reduced by as much as 30%, while clinical capability has been enhanced.²⁻⁶

Based on this research, NHRC developed the Estimating Supplies Program (ESP), a user-friendly program designed to calculate the medical requirements of a specified operational scenario.⁷ The user sets the scenario parameters and enters casualty flow data into ESP, either manually or by importing a patient stream from a casualty estimation program, such as FORECAS.⁸ Sponsored by the Marine Corps Systems Command, ESP utilizes casualty estimates, level of care, and functional area to calculate the supplies and equipment necessary to provide care for the given patient distribution. The model has been enhanced to include scenarios and tasks for shipboard and dental PCs, and preventive medicine objectives that are not covered by the original DEPMEDS PCs. ESP is available to military planners via the Internet.⁹

Introduction

The Medical Readiness Strategic Plan-2004 (MRSP-2004) was initiated in 1998 as a response to changes in the global political situation. Since the late 1980s, there has been an increasing trend toward the use of US forces for military operations other than war (OOTW). MRSP-2004 has been implemented to define and clarify joint doctrine regarding OOTW, specifically addressing issues such as medical missions, roles, and functions. A new objective for the Military Health Services System, to “prepare for and maintain readiness for OOTW,” was added to the mission of supporting deployed US forces.¹⁰

OOTW utilize US military capabilities across a wide range of operational scenarios short of war. OOTW differ from wartime operations in important ways. During war, the goal is to win, to achieve national objectives, and to conclude hostilities with as few casualties as possible. There are two broad categories of OOTW. The first category aims to deter war and resolve conflict and may involve combat. Some examples of this are peace enforcement, counterterrorism, raids and strikes, peacekeeping (PK), nation assistance, and counterinsurgency. The second category has the goal of promoting peace and supporting US civil authorities. Examples include freedom of navigation, counterdrug, humanitarian assistance (HA), disaster relief (DR), and US civil support.¹¹

Medical planning for OOTW missions differs from planning for combat. For example, the lower intensity of OOTW decreases the risk factor for traumatic injury. The OOTW population at risk (PAR) is likely to include civilians who do not fit into the demographics of the young, fit, military population, and diseases and conditions of children, the elderly, and women are seen. Endemic diseases also must be considered, both in treating PAR and in protecting caregivers from infection. Triage during combat emphasizes surgery and orthopedics, while in OOTW, the masses of patients may preclude all but the most rudimentary treatment.¹²

The most well-defined OOTW mission can experience a phenomenon described as “mission creep.” HA and DR missions by definition expect to care for civilians; thus, the large numbers of civilians presenting for treatment are considered in the planning stages. PK doctrine, however, may limit treatment to military personnel who are part of the mission. Therefore, medical planning focuses on PCs similar to those seen in combat operations. Mission creep occurs when the sporadic, less-intense nature of PK missions results in decreased demand for medical care. The medical department, particularly the dental department, begins to treat civilians during slow periods. Gradually, the mission “creeps” away from its defined purpose of treating military personnel.¹³

The levels of care seen in OOTW missions, particularly HA and DR, are different from those of operational scenarios. A comparison of combat and OOTW levels of care is shown in Table 1, where it can be seen that the main difference occurs at the First Echelon of care.

Table 1.
Comparison of Combat and OOTW Levels of Care

| Echelon | Description | OOTW | Combat |
|----------------|--|------------------------------|-----------------------|
| 1A | Field first aid | None | Buddy Aid |
| 1A/1B | Mobile clinic visits outlying areas to provide rudimentary care | Field Clinic | None |
| 1B | Stationary, sheltered, diagnostic and emergency care | General, Eye, Dental Clinics | Battalion Aid Station |
| 2 | Hospital setting with sick call, ward, pharmacy, lab, and surgery facilities | Hospital | Surgical Company |

Incorporating OOTW parameters into ESP will broaden its usefulness as a planning tool. Because OOTW and combat scenarios differ in many important ways, using combat scenarios to plan OOTW missions might result in overstocking of some supplies and equipment while underestimating the requirements for others.

Objective

This report analyzes published OOTW disease and injury statistics. The goal of this study was to compare OOTW diagnoses with already-existing PCs to determine whether there are PCs, corresponding treatment tasks, and supply requirements that are unique to OOTW. The ultimate objective of this research effort was to add an OOTW component to ESP, thus enhancing its value as a planning tool.

Method

A literature search was conducted to find published disease and injury statistics representing a variety of OOTW scenarios, and this information was organized to form a database. To establish inter-rater reliability, two researchers independently mapped the OOTW diagnoses in the database to PC codes wherever a reasonable match was possible. The findings were reviewed, and those OOTW diagnoses that could not be mapped to PC codes were determined. Researchers then consulted on-line sources¹⁴⁻²³ to define treatment protocols for the unmapped OOTW diagnoses. Medical subject matter experts were consulted for more-complex treatments. Then the clinical tasks that would be performed during treatment for each OOTW PC were determined, and the supply requirements for the tasks were established.

Results and Discussion

The literature search produced 19 sources that included disease and injury information for the OOTW listed in Table 2.²⁴⁻⁴⁰ To organize these statistics, the DEPMEDS PCs and those PCs created for ESP (detailed in Appendix A) were identified

either as trauma or nontrauma. The trauma PCs were divided into 18 categories, while the nontrauma PCs formed 20 categories. There were 15 OOTW diagnoses that did not match already-existing PCs, and all of them were nontraumatic.

Table 2.
Operations

| Operation | Disaster Relief | Humanitarian Assistance | Peace-keeping | Raid/Strike |
|---|------------------------|--------------------------------|----------------------|--------------------|
| Northridge Earthquake (1) ²⁴ | ✓ | | | |
| Northridge Earthquake (2) ²⁴ | ✓ | | | |
| Operation Pacific Haven (1996-1997) ²⁵ | | ✓ | | |
| Sudan (1990-1994) ²⁶ | | ✓ | | |
| Guatemala (February 1999) ²⁷ | | ✓ | | |
| Rwanda (post-1994) ²⁸ | | ✓ | | |
| Exercise Flash Canoe (1997) (1) ²⁹ | | ✓ | | |
| Exercise Flash Canoe (1997) (2) ²⁹ | | ✓ | | |
| Haiti (1997) ³⁰ | | ✓ | | |
| Operation Provide Promise (9/92-3/94) ³¹ | | | ✓ | |
| Bosnia ³² | | | ✓ | |
| Bosnia-Herzegovina-Joint Guard ³³ | | | ✓ | |
| Yugoslavia ³⁴ | | | ✓ | |
| Operation Cooperative Nugget ³⁵ | | | ✓ | |
| Croatia ³⁶ | | | ✓ | |
| Operation Just Cause (1) ³⁷ | | | | ✓ |
| Operation Just Cause (2) ³⁸ | | | | ✓ |
| Somalia ³⁹ | | | | ✓ |
| Munich Oktoberfest Bombing 1980 ⁴⁰ | | | | ✓ |

New OOTW PCs. The diagnoses unique to OOTW represent conditions that might occur in a more diverse PAR than in combat scenarios, and, as seen in Table 3, include three pediatric conditions, pregnancy, and unsalvageable teeth, as well as less severe versions of already-existing PCs, such as hypertension and musculoskeletal complaints. Nutritional deficiencies such as anemia, malnutrition and dehydration also occur. Cataracts occur in an older population, and pterygium, another eye disorder, is more likely to be found in areas where people spend a great deal of time in bright sunlight. Pneumonia and tuberculosis are more serious conditions that have not yet been included in ESP. The table shows that human immunodeficiency virus (HIV) is listed under infectious diseases as an unmatched condition; however, issues concerning the treatment and diagnosis of HIV extend beyond the scope of OOTW and this report. A complete map of categories, PC/ESP codes, and OOTW diagnoses is presented in Appendix B.

Table 3.
OOTW Diagnoses That Did Not Match DEPMEDS and ESP Codes

| Category | DEPMEDS/ESP Codes | OOTW Diagnoses That Did Not Match Codes in DEPMEDS or ESP |
|---------------------|--|---|
| Circulatory | 11; 258-260; 609; 615 | <ul style="list-style-type: none"> • Hypertension, mild to moderate |
| Dental | 800-834 | <ul style="list-style-type: none"> • Unsalvageable tooth |
| Eye disorders | 219-226; 600 | <ul style="list-style-type: none"> • Cataract • Pterygium |
| Gastrointestinal | 196-199; 243-246; 248-252; 256; 287; 606; 608; 610 | <ul style="list-style-type: none"> • Gastroesophageal reflux disorder (GERD), mild to moderate |
| Infectious diseases | 216; 263-264; 282-283; 329-334; 601 | <ul style="list-style-type: none"> • Tuberculosis, pulmonary • HIV |
| Musculoskeletal | 200-201; 262; 605 | <ul style="list-style-type: none"> • Minor pain, including musculoskeletal, backache, and headache, due to tension, stress, or overuse and not associated with other conditions |
| Nutritional | none | <ul style="list-style-type: none"> • Anemia, iron deficiency, not resulting from other conditions • Dehydration due to loss, inadequate intake, or both and not associated with other conditions • Malnutrition due to inadequate intake |
| Ob/Gyn | 291-295; 297; 299 | <ul style="list-style-type: none"> • Pregnancy |
| Pediatric | none | <ul style="list-style-type: none"> • Well-baby exam • Childhood diseases • Immunizations/vaccines |
| Respiratory | 232-236; 239-240 | <ul style="list-style-type: none"> • Pneumonia |

New OOTW Tasks. When linking treatment tasks to the OOTW PCs, established tasks were used whenever possible. In some instances, however, new tasks were added. The new tasks, along with the OOTW level of care at which they are performed, are summarized in Table 4, while complete listings of clinical tasks for the OOTW PCs are shown in Appendix C. The tasks that have been introduced for OOTW are, in most cases, nontechnical in nature. For example, OOTW intake/triage differs from operational triage in that the process is more an administrative channeling of patients than the evaluation and emergency treatment of casualties seen during combat. Clinical tasks, such as cataract and pterygium excision, and episiotomy, are linked with conditions that are most often seen in a diverse PAR.

New OOTW Supplies. Table 5 lists the OOTW tasks that do not require new supplies. Five of these require no supplies at all. These include range-of-motion testing and patient education, as well as tasks associated with pregnancy, such as taking a history, estimating fetal weight, and performing Leopold's maneuvers. Six OOTW tasks require no new supplies and are accomplished using items that are already in the database. For example, lung auscultation is associated with the taking of vital signs, and the same stethoscope is used for both. Similarly, the ophthalmic examination requires the same ophthalmoscope that is already part of the supply database. Supply requirements were kept to a minimum whenever possible. The 8 new tasks that require minimal new supplies are shown in Table 6, while the extensive supplies needed to perform cataract and pterygium excisions and eye anesthesia can be seen in Tables 7 and 8. Appendix D provides the complete list of established and new supplies that are linked to the OOTW

tasks, as well as their National Stock Numbers (NSNs) or part numbers and unabridged supply nomenclatures.

Table 4.
New Tasks Generated by OOTW PCs

| Task No. | New Task | OOTW PC | OOTW Level of Care | | |
|----------|--------------------------------|--------------------|--------------------|--------|----------|
| | | | Field | Clinic | Hospital |
| OTW01 | OOTW intake/triage | All | ✓ | ✓ | ✓ |
| OTW02 | Refer patient | All | ✓ | ✓ | ✓ |
| OTW03 | Range-of-motion testing | Minor aches/pains | ✓ | ✓ | ✓ |
| OTW04 | Auscultate lungs | Pneumonia | ✓ | ✓ | ✓ |
| OTW05 | Ophthalmic exam | Cataract/pterygium | | ✓ | ✓ |
| OTW06 | Slit-lamp test | Cataract/pterygium | | ✓ | ✓ |
| OTW07 | Sedate patient | Cataract/pterygium | | | ✓ |
| OTW08 | Anesthetize eye | Cataract/pterygium | | | ✓ |
| OTW09 | Cataract excision | Cataract | | | ✓ |
| OTW10 | Pterygium excision | Pterygium | | | ✓ |
| OTW11 | Patient precautions | Tuberculosis | | ✓ | ✓ |
| OTW12 | Provider precautions | Tuberculosis | | ✓ | ✓ |
| OTW13 | Patient education | Tuberculosis | ✓ | ✓ | ✓ |
| OTW14 | Dispense medication | Tuberculosis | | | ✓ |
| OTW15 | Pregnancy history | Pregnancy | ✓ | ✓ | ✓ |
| OTW16 | Perform Leopold's maneuvers | Pregnancy | ✓ | ✓ | ✓ |
| OTW17 | Estimate fetal weight | Pregnancy | ✓ | ✓ | ✓ |
| OTW18 | Assist delivery | Pregnancy | ✓ | ✓ | ✓ |
| OTW19 | Perform episiotomy | Pregnancy | | | ✓ |
| OTW20 | Administer epidural anesthesia | Pregnancy | | | ✓ |
| OTW21 | Weigh and measure baby | Well-baby check | ✓ | ✓ | ✓ |
| OTW22 | Nonsurgical tooth extraction | Dental caries | ✓ | ✓ | ✓ |

Table 5.
OOTW Tasks That Do Not Require New Supplies

| OOTW Task No. & Description | Supply Requirements |
|--|------------------------|
| Task OTW03. Range-of-motion testing | No supplies needed |
| Task OTW04. Auscultate lungs | No new supplies needed |
| Task OTW05. Ophthalmic examination | No new supplies needed |
| Task OTW07. Sedate patient | No new supplies needed |
| Task OTW11. Patient precautions | No new supplies needed |
| Task OTW13. Patient education | No supplies needed |
| Task OTW14. Dispense medication | No new supplies needed |
| Task OTW15. Pregnancy history | No supplies needed |
| Task OTW16. Perform Leopold's maneuvers | No supplies needed |
| Task OTW17. Estimate fetal weight | No supplies needed |
| Task OTW22. Nonsurgical tooth extraction | No new supplies needed |

Examination of Table 6 displays the 8 OOTW tasks other than eye surgery that utilize new supplies. Of the 12 new items, 5 are equipment (E) and 7 are consumable (C). The equipment includes a suggested personal digital assistant (PDA) or laptop computer to expedite intake and recordkeeping. A slit lamp is needed for ophthalmic examinations,

and the baby scale and tape measure are needed for well-baby exams. Except for the episiotomy scissors, all of these are used in noninvasive procedures. The consumables include forms and patient supplies, as well as anesthetics for epidural blocks, which are used only in a hospital setting.

Table 6.
New Supply Requirements at the Field, Clinic, and Hospital Levels for OOTW Tasks

| OOTW Task | NSN/Part No. | New Supply | E/C | Field | Clinic | Hosp |
|------------------------|---------------------|----------------------|------------|--------------|---------------|-------------|
| OOTW intake/triage | New | OOTW intake form | C | ✓ | ✓ | ✓ |
| OOTW intake/triage | New | PDA or laptop | E | ✓ | ✓ | ✓ |
| Refer patient | New | OOTW referral form | C | ✓ | ✓ | ✓ |
| Slit-lamp test | 6540014599226 | Handheld slit lamp | E | | ✓ | ✓ |
| Provider precautions | 6532011536517 | Isolation gown | C | | ✓ | ✓ |
| Assist delivery | P/N 62110 | Baby blanket | C | ✓ | ✓ | ✓ |
| Assist delivery | 6530012285852 | Surgical pack | C | | ✓ | ✓ |
| Perform episiotomy | 6515013418725 | Episiotomy scissors | E | | ✓ | ✓ |
| Administer epidural | 6505001493500 | Bupivacaine HCl inj | C | | | ✓ |
| Administer epidural | 6505011210705 | Fentanyl citrate inj | C | | | ✓ |
| Weigh and measure baby | P/N 32149 | Baby scale | E | | ✓ | ✓ |
| Weigh and measure baby | P/N KM48313 | Tape measure | E | | ✓ | ✓ |

Eye surgeries are performed at the hospital level, and the specialized requirements for eye anesthesia, and cataract and pterygium excisions are listed in Tables 7 and 8. Although these tables list numerous new supply items, they represent the minimal requirements needed to perform cataract and pterygium excisions with the support of a

Table 7.
New Consumable Requirements for OOTW Eye Surgery Tasks

| NSN/Product No. | Brief Description | NSN/Product No. | Brief Description |
|------------------------|------------------------------|------------------------|-----------------------------|
| 6505012366458 | Lidocaine 2% inj, 10 ml vial | 6505012803581 | Ocufen .03%, 2.5 ml btl |
| 6505002719220 | Phenylephrine 2.5%, 15 ml | 6505013041008 | Dexamethasone ophth sol |
| 6505005824737 | Tetracaine HCl, 0.5%, 2 ml | 6505013463066 | Apraclonidine HCl ophth sol |
| 6505008718289 | Tropicamide 1%, 15 ml | 6505013556475 | Balanced Salt Solution, bag |
| 6505000640724 | Acetazolamide sodium inj | 6505014703141 | Miochol, 2 ml, sterile |
| 65050011335843 | Prednisolone acetate 1% | 6505010057327 | Mitomycin 5 mg vial |
| 6505002260799 | Hyaluronidase, 150 USP | 6520013414043 | Isodent tissue glue |
| 6505008804949 | Acetazolamide | 6515013274842 | McCannel suture, 10-0 |
| 6505009635355 | Dexamethasone 4mg/ml | 6530012685142 | Sponge set |
| 6505010904724 | Phenylephrine HCl ophth sol | MTA4U0 | IOLs, anterior chamber |
| 6505010908125 | Ocucoat | MC50BD, | IOLs, posterior chamber |
| 6505011197693 | Balanced Salt Solution 15ml | P/N J974H | Suture, vicryl, 8-0 |
| 6505011439509 | Dexamethasone drops | P/N 9081G | Suture, prolene, 10-0, 4" |
| 6505011566575 | Diamox tabs, 250 mg | P/N 5977 | Drape, plastic |
| 6505012314806 | Ceftazadime, 1 g vial | P/N 00-08680 | Weck cells |

fully equipped operating room (OR). An independent eye surgery unit would include extensive supplies for performing eye surgery and plastic surgery around the eye in

isolation of other support. These procedures would include tear duct surgery, eyelid reconstruction, cataracts, and pterygia.

Table 8.
New Equipment Requirements for OOTW Eye Surgery Tasks

| NSN/Part No. | Brief Description | NSN/Part No. | Brief Description |
|----------------|--------------------------------|----------------|-------------------------------|
| 6515013765179 | Blade, crescent, angled | 6516014630342 | Cautery sleeve, sterile |
| 6515013503568 | Blade 3 mm slit angled | 6515014630340 | Coagulator, cordless |
| 6515012503545 | Blade, 15 deg/75 blade | 6515013934185 | Cystotome |
| 6515010464303 | Blade, 69B | 6515014630353 | Eraser tips for cautery |
| 6515012915445 | Blade, keratome | 6515016027091 | Extension set, 33" |
| 6515012151026 | Cannula, 27 gauge | 6515012860405 | Fluid administration set |
| 6515011648882 | Cannula, irrig\aspiration | P/N 1033 | Glide, IOL lens |
| P/N 020-505 | Cannula, Olive tip | P/N 33633-06 | Gouge, Stille |
| P/N 44306-00 | Cannula, Simcoe | 6515007822614 | Handle, knife blades |
| 6515011157667 | Forceps, .12 mm suture | 6515007822616 | Handle, Beaver blade |
| 6515014621219 | Forceps, Blaydes | 6515012052365 | Hook, muscle, Jameson |
| 6515011397668 | Forceps, Colibri | P/N OP0923-302 | Hook, Sinsky |
| P/N E1620 | Forceps, Kuhnt fixation | P/N OP20620 | Irrigating loop, lens, vectis |
| P/N OP0911-992 | Forceps, Masket | 6515012148746 | Lens extractors |
| 6515013641432 | Forceps, tying, curved | 6515011205013 | Needle driver, Castroviejo |
| 6515013204473 | Forceps, tying, straight | 6515012069242 | Retractors, iris, flexible |
| 6515014696145 | Forceps, Utrata | 6515014827975 | Spatula, cyclodialysis |
| 6515014417251 | Atkinson needle, retrobulbar | 6515012056823 | Speculum, lid, large |
| 6515013702219 | Scissors, blunt Westcott | 6515012056821 | Speculum, lid, small |
| 6515011151732 | Scissors, Castro corneal left | 6540014587838 | Tonometer, ophthalmic |
| 6515011151731 | Scissors, Castro corneal right | P/N 031-351 | Bur, Lempert diamond |
| P/N 10113-11 | Scissors, Dewecker, sharp | 6515003447920 | Handle, Bard-Parker |
| 6515014828402 | Scissors, straight, iris | 6515014605954 | Jaffe curved lid retractors |
| 6515011249775 | Scissors, Vannas capsulotomy | P/NE0999 | Newell lid retractors |

Conclusion

The purpose of defining scenarios for military medical planning is to account for differences in the intensity, geography, and demographics of unique operations. Some of the medical activities of OOTW are similar to those of wartime. For example, both scenarios may involve dealing with large displaced populations such as refugees or prisoners of war. Mine injuries also occur during OOTW. The differences between OOTW and combat missions tend toward variations in patient demographics, demand for medical services, and the nature of the medical services provided.¹³

DEPMEDS was designed for combat scenarios,¹ where complex traumatic injuries are likely to occur, and the emphasis is on emergency care and evacuation. The patient population is composed of military personnel who are, for the most part, young and fit. Demands on the medical department vary, with periods of intense activity interspersed with relative quiet. Medical care may also be intense, with complex injuries requiring resuscitative treatment, emergency surgery, and eventual evacuation. OOTW, however, often involve diverse civilian populations, and the military units serving OOTW are likely to include females and medical personnel who are older than the typical

combat soldier. It is not unusual for caregivers to treat hundreds of patients each day^{27, 30} who present with conditions that are not urgent, such as parasites, infectious diseases, and minor musculoskeletal complaints. Despite these differences, the military medical department is best equipped in terms of personnel, equipment, and medical resources, to handle OOTW.⁴¹

Planners need to consider OOTW needs in terms of supply differences, personnel required, and logistics. Medical supplies for OOTW might include antiparasitic medications, oral rehydration equipment, and treatments for endemic infectious diseases; vitamins for children and pregnant women are also important. Combat medical missions, conversely, require blood supplies and resuscitative equipment. OOTW usually require more primary care providers, pediatricians, and infectious disease specialists than combat scenarios.¹² Logistical considerations might include mission-specific modules to enhance AMALs that are configured for combat.

Determining OOTW PCs and linking them to the clinical tasks and supply requirements that comprise treatment protocols is the basis for creating a planning module for ESP. To continue the process, a patient stream must be developed. In this report, the diagnoses were classified by type rather than by frequency, to determine which diseases and injuries are unique to OOTW. Additional research is needed to quantify PAR and to calculate rates of occurrence for HA, DR, and PK operations. Empirical medical data from recent PK and peace enforcement operations, supplemented with peacetime data from regional treatment facilities and admissions data from previous conventional combat operations, have been used to provide estimated disease and injury rates.⁴² The methods used to arrive at those estimates can be applied to the data elements defined in this report to establish a protocol for determining OOTW disease and injury rates. Following these efforts, logistical decisions for the deployment of the OOTW medical mission can be made.

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APPENDIX A

DEPMEDS and ESP PC List

Appendix A – DEPMEDS and ESP PC List

*PC# PC DESCRIPTION

| | |
|-----|--|
| 001 | Cerebral concussion closed with/without nondepressed linear skull fracture severe – loss of consciousness from 2 to 12 hours |
| 002 | Cerebral concussion closed with/without nondepressed linear skull fracture moderate – loss of consciousness less than 2 hours |
| 003 | Cerebral contusion closed with/without nondepressed linear skull fracture severe – loss of consciousness greater than 24 hours with focal neurological deficit |
| 004 | Cerebral contusion closed with/without nondepressed linear skull fracture moderate – loss of consciousness from 12–24 hours without focal neurological deficit |
| 005 | Cerebral contusion closed with intracranial hematoma with/without nondepressed linear skull fracture – severe – large hematoma (including epidural hematoma) with rapidly deteriorating comatose patient |
| 006 | Cerebral contusion closed with nondepressed linear skull fracture severe – loss of consciousness greater than 24 hours with/without focal neurological deficit |
| 007 | Cerebral contusion closed with depressed skull fracture severe – with associated intracerebral hematoma and/or massive depression |
| 008 | Cerebral contusion closed with depressed skull fracture moderate – no associated hematoma or significant effect from depression |
| 009 | Cerebral contusion with open skull fracture severe – with intracranial fragments and/or depressed skull fracture; eyelid and eyeball laceration with retained intraocular foreign body |
| 010 | Cerebral contusion with open skull fracture moderate – without intracranial fragments and/or depressed skull fracture |
| 011 | Intracranial hemorrhage spontaneous nontraumatic all cases |
| 012 | Not assigned |
| 013 | Wound scalp open without cerebral injury or skull fracture severe – scalped with avulsion of tissue |
| 014 | Wound scalp open without cerebral injury or skull fracture moderate – scalp laceration |
| 015 | Fracture facial bones closed exclusive of mandible severe – multiple fractures |
| 016 | Fracture facial bones closed exclusive of mandible moderate – single fracture |
| 017 | Wound face jaws and neck open lacerated with associated fractures excluding spinal fractures severe – with airway obstruction |
| 018 | Wound face jaws and neck open lacerated with associated fractures excluding spinal fractures moderate – without airway obstruction; eyelid and eyeball laceration with retained intraocular foreign body |
| 019 | Wound face and neck open lacerated contused without fractures severe – with airway obstructions and/or major vessel involvement |
| 020 | Wound face and neck open lacerated contused without fractures moderate – without airway obstruction or major vessel involvement |
| 021 | Eye wound severe – loss of intraocular fluid with/without retinal detachment, with severe lid laceration, eye not salvageable |

*PCs numbered 600 and higher are codes that were added to the ESP model.

Appendix A – DEPMEDS and ESP PC List

*PC# PC DESCRIPTION

| | |
|-----|---|
| 022 | Eye wound lacerated moderate – without retinal detachment or retinal injury no foreign body retained without loss of vitreous fluid patient has hyphema eye salvageable |
| 023 | Hearing impairment severe |
| 024 | Hearing impairment moderate |
| 025 | Fracture spine closed without cord damage unstable lesion |
| 026 | Fracture spine closed without cord damage stable lesion |
| 027 | Fracture spine closed with cord damage cervical spine with respiratory involvement |
| 028 | Fracture spine closed with cord damage below cervical spine (progressive) |
| 029 | Fracture spine open with cord damage cervical spine with respiratory involvement |
| 030 | Fracture spine open with cord damage below cervical spine (progressive) |
| 031 | Intervertebral disc disorders with nerve root compression resistant to bed rest/traction |
| 032 | Intervertebral disc disorders with nerve root compression responding to bed rest/traction |
| 033 | Strains and sprains sacroiliac region severe – nonambulatory |
| 034 | Strains and sprains sacroiliac region moderate – ambulatory |
| 035 | Burn thermal superficial head and neck greater than 5% but less than 10% of total body area and/or eye involvement |
| 036 | Burn thermal superficial head and neck less than 5% of total body area and no eye involvement |
| 037 | Burn thermal partial thickness head and neck greater than 5% but less than 10% of total body area and/or eye involvement |
| 038 | Burn thermal partial thickness head and neck less than 5% of total body area and no eye involvement |
| 039 | Burn thermal full thickness head and neck greater than 5% but less than 10% of total body area with eye involvement |
| 040 | Burn thermal full thickness head and neck less than 5% of total body area and no eye involvement |
| 041 | Fracture clavicle closed all cases |
| 042 | Wound shoulder girdle open with bone injury severe – joint involvement |
| 043 | Wound shoulder girdle open with bone injury moderate – no joint involvement |
| 044 | Fracture humerus closed upper shaft all cases |
| 045 | Wound upper arm open penetrating lacerated without fracture severe – with nerve and/or vascular injury |
| 046 | Wound upper arm open penetrating lacerated without fracture moderate – without nerve or vascular injury |
| 047 | Wound upper arm open with fractures and nerve and vascular injury arm nonsalvageable |
| 048 | Wound upper arm open with fractures and nerve injury no vascular injury arm salvageable |
| 049 | Fracture radius and ulna closed severe – shafts of bones |
| 050 | Fracture radius and ulna closed moderate – Colles fracture |

*PCs numbered 600 and higher are codes that were added to the ESP model.

Appendix A – DEPMEDS and ESP PC List

*PC# PC DESCRIPTION

| | |
|-----|--|
| 051 | Wound forearm open lacerated penetrating without bone nerve or vascular injury with major loss of muscle tissue severe requiring major debridement |
| 052 | Wound forearm open lacerated penetrating without bone nerve or vascular injury moderate – not requiring major debridement |
| 053 | Wound forearm open lacerated penetrating with fracture and with nerve and vascular injury forearm not salvageable |
| 054 | Wound forearm open lacerated penetrating with fracture and with nerve and vascular injury forearm salvageable |
| 055 | Fracture hand or fingers closed severe – requiring closed reduction |
| 056 | Fracture hand and/or fingers closed moderate – not requiring closed reduction |
| 057 | Wound hand and/or fingers open lacerated without fractures severe – superficial and deep tendon involvement |
| 058 | Wound hand and/or fingers open lacerated without fractures moderate – no tendon involvement or limited to sublimis tendon involvement |
| 059 | Wound hand open lacerated contused crushed with fracture(s) all cases – involving fractures of carpals and/or metacarpals |
| 060 | Wound fingers open lacerated contused crushed with fracture(s) of phalangeals requiring rehabilitation |
| 061 | Crush injury upper extremity severe – limb not salvageable |
| 062 | Crush injury upper extremity moderate – limb salvageable |
| 063 | Not assigned |
| 064 | Dislocation shoulder closed all cases |
| 65 | Dislocation/fracture elbow closed acute all cases |
| 066 | Not assigned |
| 067 | Dislocation hand or wrist closed acute |
| 068 | Dislocation fingers closed acute |
| 069 | Amputation hand traumatic complete all cases |
| 070 | Amputation forearm traumatic complete all cases |
| 071 | Amputation full arm traumatic complete all cases |
| 072 | Sprain wrist closed acute all cases |
| 073 | Sprain thumb closed acute severe |
| 074 | Sprain fingers closed acute moderate – no thumb involvement |
| 075 | Burn thermal superficial upper extremities greater than 10% but less than 20% of total body area involved |
| 076 | Burn thermal superficial upper extremity less than 10% of total body area involved |
| 077 | Burn thermal partial thickness upper extremities greater than 10% but less than 20% of total body area involved |
| 078 | Burn thermal partial thickness upper extremity less than 10% of total body area involved |
| 079 | Burn thermal full thickness upper extremities greater than 10% but less than 20% of total body area involved |

*PCs numbered 600 and higher are codes that were added to the ESP model.

Appendix A – DEPMEDS and ESP PC List

*PC# PC DESCRIPTION

| | |
|-----|--|
| 080 | Burn thermal full thickness upper extremity less than 10% of total body area involved |
| 081 | Fracture ribs closed severe – multiple fractures |
| 082 | Fracture rib(s) closed moderate |
| 083 | Injury lung closed (blast crush) with pneumothorax severe – one lung with pulmonary contusion and acute severe respiratory distress |
| 084 | Injury lung closed (blast crush) with pneumothorax moderate – one lung with pulmonary contusion and respiratory distress |
| 085 | Wound thorax (anterior or posterior) open superficial lacerated contused abraded avulsed requiring major debridement |
| 086 | Wound thorax (anterior or posterior) open superficial lacerated contused abraded avulsed not requiring major debridement |
| 087 | Wound thorax (anterior or posterior) open penetrating with associated rib fractures and pneumothorax acute severe respiratory distress |
| 088 | Wound thorax (anterior or posterior) open penetrating with associated rib fractures and pneumothorax moderate respiratory distress |
| 089 | Not assigned |
| 090 | Burn thermal superficial trunk greater than 20% but less than 30% of total body area involved |
| 091 | Burn thermal superficial trunk greater than 10% but less than 20% of total body area involved |
| 092 | Burn thermal partial thickness trunk greater than 20% but less than 30% of total body area involved |
| 093 | Burn thermal partial thickness trunk greater than 10% but less than 20% of total body area involved |
| 094 | Burn thermal full thickness trunk greater than 20% but less than 30% of total body area involved |
| 095 | Burn thermal full thickness trunk greater than 10% but less than 20% of total body area involved |
| 096 | Wound abdominal wall (anterior or posterior) lacerated abraded contused avulsed without entering abdominal cavity severe – requiring major debridement |
| 097 | Wound abdominal wall (anterior or posterior) lacerated abraded contused avulsed without entering abdominal cavity not requiring major debridement |
| 098 | Wound liver closed acute (crush fracture) major liver damage |
| 099 | Wound liver closed acute (crush fracture) minor liver damage |
| 100 | Wound spleen closed acute (crush fracture) all cases |
| 101 | Wound abdominal cavity open with lacerating penetrating perforating wound to the large bowel |
| 102 | Wound abdominal cavity open with lacerating penetrating perforating wound to the small bowel without major or multiple resections |
| 103 | Wound abdominal cavity open with penetrating perforating wound of liver major damage |

*PCs numbered 600 and higher are codes that were added to the ESP model.

Appendix A – DEPMEDS and ESP PC List

*PC# PC DESCRIPTION

| | |
|-----|--|
| 104 | Wound abdominal cavity open with penetrating perforating abdominal wound with lacerated liver |
| 105 | Wound abdominal cavity open with penetrating perforating wound of spleen |
| 106 | Wound abdominal cavity open with lacerated penetrated perforated wound with shattered kidney |
| 107 | Wound abdominal cavity open with lacerated penetrating perforating wound with lacerated kidney initially repaired but subsequent nephrectomy |
| 108 | Wound penetration of pelvis with severe organ damage |
| 109 | Wound penetration of pelvis with moderate organ damage |
| 110 | Wound buttocks severe – open lacerated penetrating perforating and avulsed |
| 111 | Wound buttocks moderate – open lacerated contused and abraded |
| 112 | Displaced fracture of pelvis closed with associated soft tissue damage and pelvic organ damage |
| 113 | Nondisplaced fracture of pelvis closed with associated soft tissue damage |
| 114 | Wound abdomen open with pelvic fracture and penetrating perforating wounds to multiple pelvic structures (male or female) |
| 115 | Wound abdomen open with pelvic fracture and penetrating perforating wounds to pelvic colon only (male or female) |
| 116 | Wound external genitalia male severe – lacerated avulsed crushed |
| 117 | Wound external genitalia male moderate – abraded and contused |
| 118 | Wound external genitalia female severe – lacerated avulsed crushed |
| 119 | Wound external genitalia female moderate – abraded contused |
| 120 | Fracture closed femur shaft all cases |
| 121 | Wound thigh open without fracture nerve or vascular injury requiring major debridement |
| 122 | Wound thigh open without fracture nerve or vascular injury not requiring major debridement |
| 123 | Wound thigh open lacerated penetrating perforating with fracture and nerve/vascular injury limb not salvageable |
| 124 | Wound thigh open lacerated penetrating perforating with fracture and nerve and/or vascular injury limb salvageable |
| 125 | Wound knee open lacerated penetrating perforating with joint space penetration shattered knee |
| 126 | Wound knee open lacerated penetrating perforating with joint space penetration articular cartilage damage no bone injury |
| 127 | Fracture closed tibia and fibula shaft all cases |
| 128 | Wound lower leg open lacerated penetrating perforating without fractures requiring major debridement |
| 129 | Wound lower leg open lacerated penetrating perforating without fractures not requiring major debridement |
| 130 | Wound lower leg open lacerated penetrating perforating with fracture and nerve/vascular injury limb not salvageable |
| 131 | Wound lower leg open lacerated penetrating perforating with fracture and nerve and/or vascular injury limb salvageable |
| 132 | Fracture ankle/foot closed displaced requiring reduction |
| 133 | Fracture ankle/foot closed nondisplaced not requiring reduction |

*PCs numbered 600 and higher are codes that were added to the ESP model.

Appendix A – DEPMEDS and ESP PC List

*PC# PC DESCRIPTION

| | |
|-----|---|
| 134 | Wound ankle foot toes open lacerated contused without fractures but requiring major debridement |
| 135 | Wound ankle foot toes open lacerated contused without fractures not requiring major debridement |
| 136 | Wound ankle foot toes open penetrating perforating with fractures and nerve/vascular injury limb not salvageable |
| 137 | Wound ankle foot toes open penetrating perforating with fractures and nerve and/or vascular injury limb salvageable |
| 138 | Crush injury lower extremity limb not salvageable |
| 139 | Crush injury lower extremity limb salvageable |
| 140 | Dislocation hip closed acute all cases |
| 141 | Tear ligaments knee acute complete rupture |
| 142 | Tear ligaments knee acute incomplete rupture |
| 143 | Dislocation toes closed acute all cases |
| 144 | Amputation foot traumatic complete all cases |
| 145 | Amputation below knee traumatic complete all cases |
| 146 | Amputation traumatic complete requiring hip disarticulation |
| 147 | Amputation above knee traumatic complete |
| 148 | Sprain ankle closed acute with complete ligament rupture |
| 149 | Sprain ankle closed acute grade 2 incomplete ligament rupture |
| 150 | Burn thermal superficial lower extremities and genitalia greater than 30% but less than 40% of total body area involved |
| 151 | Burn thermal superficial lower extremities and genitalia greater than 15% but less than 30% of total body area involved |
| 152 | Burn thermal partial thickness lower extremities and genitalia greater than 30% but less than 40% of total body area involved |
| 153 | Burn thermal partial thickness lower extremities and genitalia greater than 15% but less than 30% of total body area involved |
| 154 | Burn thermal full thickness lower extremities and genitalia greater than 30% but less than 40% of total body area involved |
| 155 | Burn thermal full thickness lower extremity and genitalia greater than 15% but less than 30% of total body area involved |
| 156 | Blisters hand fingers foot toes due to friction acute moderate all cases |
| 157 | Insect bites and stings (unspecified body area) with systemic symptoms and/or respiratory difficulty |
| 158 | Bites and stings (unspecified body area) moderate localized symptoms |
| 159 | MIW brain and chest with sucking chest wound and pneumothorax |
| 160 | MIW brain and abdomen with penetrating perforating wound colon |
| 161 | MIW brain and abdomen with penetrating perforating wound kidney |
| 162 | MIW brain and abdomen with penetrating perforating wound bladder |
| 163 | MIW brain and abdomen with shock and penetrating perforating wound spleen |
| 164 | MIW brain and abdomen with shock and penetrating perforating wound liver |

*PCs numbered 600 and higher are codes that were added to the ESP model.

Appendix A – DEPMEDS and ESP PC List

*PC# PC DESCRIPTION

| | |
|-----|---|
| 165 | MIW brain and lower limbs requiring bilateral above knee amputations |
| 166 | MIW chest with pneumothorax and abdomen with penetrating wound colon |
| 167 | MIW chest with pneumothorax and abdomen with penetrating perforating wound kidney bladder |
| 168 | MIW chest with pneumothorax and abdomen with perforating wound bladder |
| 169 | MIW chest with pneumothorax and abdomen with penetrating perforating wound spleen |
| 170 | MIW chest with pneumothorax and abdomen with penetrating perforating wound liver |
| 171 | MIW chest with pneumothorax and limbs with fracture and vascular injury |
| 172 | MIW abdomen with penetrating perforating wound of colon and bladder |
| 173 | MIW abdomen with penetrating perforating wound of colon and spleen |
| 174 | MIW abdomen with penetrating perforating wound of colon and liver |
| 175 | MIW abdomen and limbs with penetrating perforating wound of colon and open fracture and neurovascular injury of salvageable lower limb |
| 176 | MIW abdomen and pelvis with penetrating perforating wound of liver and kidney |
| 177 | MIW abdomen and pelvis with penetrating perforating wounds of spleen and bladder |
| 178 | MIW abdomen pelvis limbs with fracture and neurovascular injury limb salvageable and penetrating wound kidney |
| 179 | MIW abdomen pelvis limbs without fracture or neurovascular injury and penetrating perforating wound bladder |
| 180 | MIW abdomen and lower limbs with fracture and nerve injury with penetrating wound of spleen with full thickness burns to greater than 20% of TBSA |
| 181 | MIW abdomen and limbs without fracture or nerve injury with penetrating wound of liver |
| 182 | MIW chest with pneumothorax soft tissue injury to upper limbs and penetrating wound of brain |
| 183 | MIW chest with pneumothorax soft tissue injury to upper limbs and abdomen with wound of colon |
| 184 | MIW chest with pneumothorax pelvis and abdomen with wound of colon and bladder |
| 185 | MIW abdomen and chest with multiple organ damage |
| 186 | Multiple nonperforating fragment wounds of skin and soft tissue |
| 187 | Trench foot immersion foot severe – vesicle formation |
| 188 | Trench foot immersion foot moderate – no vesicle formation |
| 189 | Not assigned |
| 190 | Frostbite full skin thickness or deeper involvement |
| 191 | Frostbite less than full skin thickness |
| 192 | Hypothermia all cases |
| 193 | Heat stroke |

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Appendix A – DEPMEDS and ESP PC List

*PC# PC DESCRIPTION

| | |
|-----|--|
| 194 | Heat exhaustion |
| 195 | Heat cramps all cases |
| 196 | Appendicitis acute with perforation rupture peritonitis |
| 197 | Appendicitis acute without perforation rupture peritonitis |
| 198 | Inguinal hernia complicated direct or indirect sliding incarceration of bowel |
| 199 | Inguinal hernia uncomplicated direct or indirect no sliding no incarceration of bowel or bladder |
| 200 | Internal derangement of knee chronic with torn meniscus and/or ligament laxity |
| 201 | Strain lumbosacral sacroiliac joint chronic all cases |
| 202 | Eczema dermatitis seborrheic contact others affecting weight bearing or pressure areas |
| 203 | Eczema dermatitis seborrheic contact others not affecting weight bearing areas |
| 204 | Boils furuncles pyoderma requiring surgery |
| 205 | Boils furuncles pyoderma all other cases |
| 206 | Cellulitis involving face or weight bearing areas |
| 207 | Cellulitis other than face or weight bearing areas |
| 208 | Dermatophytosis severe – affecting feet |
| 209 | Dermatophytosis all other cases |
| 210 | Pediculosis all cases |
| 211 | Scabies all cases |
| 212 | Pilonidal cyst/abscess requiring major excision |
| 213 | Pilonidal cyst/abscess requiring minor incision |
| 214 | Ingrown toenails bilateral with secondary infections unresolvable at Echelon 2 |
| 215 | Ingrown toenails without secondary infection |
| 216 | Herpes simplex and zoster without encephalitis all types all cases |
| 217 | Not assigned |
| 218 | Not assigned |
| 219 | Hyperhidrosis all cases |
| 220 | Blepharitis all cases |
| 221 | Conjunctivitis severe all cases |
| 222 | Conjunctivitis moderate all cases |
| 223 | Corneal ulcer |
| 224 | Corneal abrasion |

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Appendix A – DEPMEDS and ESP PC List

*PC# PC DESCRIPTION

| | |
|-----|---|
| 225 | Iridocyclitis acute marked visual impairment |
| 226 | Iridocyclitis acute minimal visual impairment |
| 227 | Refraction and accommodation disorders refraction required |
| 228 | Refraction and accommodation disorders replacement of spectacles required |
| 229 | Otitis externa all cases |
| 230 | Otitis media acute suppurative all cases |
| 231 | Not assigned |
| 232 | Allergic rhinitis all cases |
| 233 | Upper respiratory infections acute including tonsillitis all cases |
| 234 | Bronchitis acute all cases |
| 235 | Asthma with disabling symptoms or repeated attacks |
| 236 | Asthma other cases |
| 237 | Not assigned |
| 238 | Not assigned |
| 239 | Acute respiratory disease severe |
| 240 | Acute respiratory disease moderate |
| 241 | Not assigned |
| 242 | Not assigned |
| 243 | Food poisoning all organisms disabling symptoms |
| 244 | Food poisoning all organisms moderate symptoms |
| 245 | Diarrheal disease severe |
| 246 | Diarrheal disease moderate |
| 247 | Upper gastrointestinal hemorrhage gastritis or ulcer |
| 248 | Dyspepsia acute all cases |
| 249 | Peptic ulcer gastric or duodenal penetrating and/or perforating |
| 250 | Peptic ulcer gastric or duodenal uncomplicated |
| 251 | Regional ileitis disabling symptoms unresponsive to treatment |
| 252 | Regional ileitis responds to treatment |
| 253 | Helminthiasis all cases |
| 254 | Not assigned |
| 255 | Migraine all cases |

*PCs numbered 600 and higher are codes that were added to the ESP model.

Appendix A – DEPMEDS and ESP PC List

*PC# PC DESCRIPTION

| | |
|-----|---|
| 256 | Hemorrhoidal disease all cases |
| 257 | Not assigned |
| 258 | Severe hypertension |
| 259 | Ischemic heart disease |
| 260 | Phlebitis deep vein involvement |
| 261 | Not assigned |
| 262 | Tenosynovitis elbow wrist shoulders etc. |
| 263 | Meningo-encephalitis uncomplicated |
| 264 | Meningo-encephalitis complicated |
| 265 | Near drowning without cervical spine injury or hypothermia all cases |
| 266 | Toxic inhalation including burn-related respiratory injuries severe all cases |
| 267 | Not assigned |
| 268 | White phosphorus burns resultant partial thickness burns < 40% TBSA all cases |
| 269 | Sexually transmitted diseases (STD) urethritis |
| 270 | Sexually transmitted diseases (STD) genital ulcers and/or adenopathy |
| 271 | Sexually transmitted diseases (STD) complicated |
| 272 | Glomerulonephritis acute |
| 273 | Glomerulonephritis chronic |
| 274 | Pyelonephritis acute secondary to obstruction |
| 275 | Pyelonephritis acute no obstruction |
| 276 | Nephrotic syndrome all cases |
| 277 | Ureteral calculus causing obstruction impacted |
| 278 | Ureteral calculus not causing obstruction |
| 279 | Epididymitis cystitis prostatitis acute all cases |
| 280 | Balanoposthitis all cases |
| 281 | Not assigned |
| 282 | Infectious mononucleosis all cases |
| 283 | Hepatitis infectious viral all cases |
| 284 | Not assigned |
| 285 | Cholecystitis acute with stones all cases |
| 286 | Pancreatitis acute all cases |

*PCs numbered 600 and higher are codes that were added to the ESP model.

Appendix A – DEPMEDS and ESP PC List

*PC# PC DESCRIPTION

| | |
|-----|---|
| 287 | Cirrhosis all cases |
| 288 | Not assigned |
| 289 | Neoplasms malignant |
| 290 | Neoplasms benign |
| 291 | Abnormal uterine bleeding (Not included in calculation of BAS wartime supplies) |
| 292 | Dysmenorrhea amenorrhea (Not included in calculation of BAS wartime supplies) |
| 293 | Pelvic inflammatory disease (PID) all cases (Not included in calculation of BAS wartime supplies) |
| 294 | Cervicitis endocervicitis with symptomatic leukorrhea (Not included in calculation of BAS wartime supplies) |
| 295 | Vulvovaginitis (Not included in calculation of BAS wartime supplies) |
| 296 | Not assigned |
| 297 | Tubal pregnancy all cases (Not included in calculation of BAS wartime supplies) |
| 298 | Not assigned |
| 299 | Abortion spontaneous with hemorrhage (Not included in calculation of BAS wartime supplies) |
| 300 | Not assigned |
| 301 | Psychosis |
| 302 | Conduct disorders |
| 303 | Non-psychotic mental disorders |
| 304 | Stress reaction severe unstable slow improvement |
| 305 | Stress reaction severe stable slow improvement |
| 306 | Alcohol dependency syndrome moderate |
| 307 | Alcohol misuse simple intoxication |
| 308 | Drug dependency (other than alcohol) severe |
| 309 | Drug misuse (other than alcohol) mild or moderate |
| 310 | Stress reaction mild/moderate |
| 311 | Eye wound lacerated penetrated with retinal injury eye salvageable |
| 312 | Wound knee open lacerated penetrating perforating with joint space penetration no bone or articular cartilage |
| 313 | Wound abdominal cavity open with lacerated penetrating perforating wound kidney moderate – kidney salvageable |
| 314 | Stress reaction severe unstable delayed improvement |
| 315 | Stress reaction severe unstable persisting |
| 316 | Alcohol dependency severe – impending or actual DTs |
| 317 | Drug misuse (other than alcohol) severe – atypical no dependency |

*PCs numbered 600 and higher are codes that were added to the ESP model.

Appendix A – DEPMEDS and ESP PC List

*PC# PC DESCRIPTION

| | |
|-----|---|
| 318 | Stress reaction severe – rapid improvement |
| 319 | Wound fingers open lacerated contused crushed with fracture(s) of phalangeals not requiring rehabilitation |
| 320 | Dislocation/subluxation temporomandibular joint without fracture chronic requiring correction |
| 321 | Dislocation/subluxation temporomandibular joint without fracture acute initial injury |
| 322 | Fracture mandible with/without oral laceration without airway involvement unstable severe requiring open reduction |
| 323 | Fracture mandible with/without oral laceration without airway involvement mild displacement stable |
| 324 | Stress reaction severe stable – delayed improvement |
| 325 | Stress reaction severe stable persisting |
| 326 | Not assigned |
| 327 | Not assigned |
| 328 | Animal bites and rabies exposure |
| 329 | Trachoma all cases |
| 330 | Schistosomiasis all cases |
| 331 | Malaria severe – all species |
| 332 | Malaria moderate – all species |
| 333 | Febrile illness acute severe – except malaria and pneumonia |
| 334 | Febrile illness acute moderate |
| 335 | Snake bite |
| 336 | Not assigned |
| 337 | Not assigned |
| 338 | Not assigned |
| 339 | Cutaneous ulcers including leishmaniasis |
| 340 | Not assigned |
| 341 | Not assigned |
| 342 | Not assigned |
| 343 | Not assigned |
| 344 | Not assigned |
| 345 | Not assigned |
| 346 | Eye wound directed energy induced (laser) severe of macula and/or optic nerve with vitreous blood severe visual loss one or both eyes |

*PCs numbered 600 and higher are codes that were added to the ESP model.

Appendix A – DEPMEDS and ESP PC List

*PC# PC DESCRIPTION

| | |
|-----|--|
| 347 | Eye wound directed energy induced (laser/rfr) moderate to severe posterior nonmacular nonoptic nerve visual loss secondary to vitreous blood |
| 348 | Eye wound directed energy induced (laser) moderate nonmacular nonoptic nerve no vitreous blood |
| 349 | Eye wound directed energy induced (laser/rfr) mild to moderate anterior pain with photophobia and disruption of corneal integrity |
| 350 | Eye wound directed energy induced (laser) mild flash blindness no permanent damage |
| 351 | Anthrax, inhalation, non-vaccinated1, incubating, asymptomatic |
| 352 | Anthrax, inhalation, non-vaccinated, prodromal |
| 353 | Anthrax, inhalation, non-vaccinated, acute |
| 354 | Anthrax, inhalation, vaccinated, asymptomatic |
| 355 | Anthrax, inhalation, vaccinated, prodromal |
| 356 | Anthrax, inhalation, vaccinated, acute |
| 357 | Plague, inhalation, incubating, asymptomatic |
| 358 | Plague, inhalation, acute |
| 359 | Plague meningitis |
| 360 | Botulism with respiratory failure |
| 361 | Botulism without respiratory failure |
| 362 | Staphylococcal enterotoxin b with respiratory failure |
| 363 | Staphylococcal enterotoxin b without respiratory failure |
| 364 | Venezuelan equine encephalitis with central nervous system involvement |
| 365 | Smallpox, incubating, asymptomatic |
| 366 | Smallpox, symptomatic |
| 367 | Tularemia, inhalation, incubating asymptomatic |
| 368 | Tularemia, inhalation, acute |
| 369 | Ricin, inhalation |
| 370 | Q fever, inhalation, incubating, asymptomatic |
| 371 | Q fever, inhalation, acute |
| 382 | Nerve agent vapor only (inhalation) mild |
| 383 | Nerve agent vapor moderate |
| 384 | Nerve agent vapor severe |
| 385 | Nerve agent liquid mild |

*PCs numbered 600 and higher are codes that were added to the ESP model.

Appendix A - DEPMEDS and ESP PC List

*PC# PC DESCRIPTION

| | |
|------|--|
| 386 | Nerve agent liquid moderate |
| 387 | Nerve agent liquid moderately severe |
| 388 | Nerve agent liquid severe |
| 389 | Wound, lower leg, open, lacerated, penetrating, no fractures, requiring major debridement, mod. contaminated with liquid nerve agent |
| 390 | Nerve agent combined penetrating abdominal wound |
| 391 | Mustard liquid/vapor mild |
| 392 | Mustard liquid/vapor moderate |
| 393 | Mustard liquid/vapor severe |
| 394 | Hd/lewisite combination, mild |
| 395 | Phosgene oxime |
| 396 | Cyanide (ac) inhalation, mild |
| 397 | Cyanide (ac) inhalation, severe |
| 398 | Pulmonary agent with early (<4hours) symptoms |
| 399 | Pulmonary agent with delayed (>4 hours) symptoms |
| 400 | Anticholinergic incapacitating agent |
| 401 | White phosphorus injury, skin exposure |
| 600* | Hyphema all cases |
| 601* | Verruca, plantar warts, anal, genital condylomas |
| 602* | Common dermatitis - puritis, urticaria |
| 603* | Smoke inhalation |
| 604* | Electrical shock |
| 605* | Arthritis |
| 606* | Constipation, fecal impaction |
| 607* | Motion sickness, vertigo |
| 608* | Gastroenteritis |
| 609* | Stroke |
| 610* | Diabetes |
| 611* | Acne, sebaceous gland condition |
| 612* | Rickettsial disease including Rocky Mountain Spotted Fever, scrub typhus |
| 613* | Poisoning, including ingestion, inhalation, contact |

*PCs numbered 600 and higher are codes that were added to the ESP model.

*PC# PC DESCRIPTION

| | |
|------|--|
| 614* | Decompression sickness |
| 615* | Syncope, vasovagal |
| 616* | Aircraft accident investigation (IDC - collect blood, urine samples only) |
| 617* | Urinary tract infection uncomplicated |
| 800* | Acute necrotizing gingivitis (ANUG)-an inflammation of the gingiva characterized by necrosis of the papillae, ulceration of the gingival margins, appearance of a pseudomembrane, pain, and a fetid mouth odor |
| 801* | Alveolitis/alveolar osteitis (localized)-infection of an extraction site (dry socket, localized osteitis) |
| 802* | Apical abscess/periapical abscess-collection of purulent exudate around the area of the tooth that surrounds the root tip |
| 803* | Avulsed, mobile, displaced tooth-separation or displacement of an entire tooth structure from its supporting and attaching tissues |
| 804* | Candidiasis-fungal infection |
| 805* | Caries no pulp involvement-deterioration of enamel by decay that does not extend to the pulp |
| 806* | Caries pulp involvement-deterioration of enamel by decay that extends to the pulp |
| 807* | Cellulitis-inflammation of the subcutaneous tissue caused by group A beta hemolytic streptococci |
| 808* | Crown loose-loose tooth cap |
| 809* | Crown broken/missing-broken or fracture of tooth cap |
| 810* | Defective restoration-deterioration, fracture, or loss of permanent or temporary non-cast restoration |
| 811* | Dentin hypersensitivity-a portion of the protective covering from the hard enamel coating of the tooth is lost causing the odontoblasts to be exposed and hypersensitive to hot and cold substances |
| 812* | Food impaction/foreign body removal-food or object that is lodged in gums |
| 813* | Fractured alveolar bone-a break in the bone surrounding a tooth |
| 814* | Fractured mandible-fracture or break of the lower jaw |
| 815* | Fractured maxilla-fracture or break of the upper jaw |
| 816* | Fractured tooth-fracture or break in the tooth with or without the loss of a portion of the tooth enamel crown |
| 817* | Gingivitis-acute or chronic inflammation of the gingiva |
| 818* | Maxillary sinusitis-infection of sinus area accompanied by inflammation and drainage conditions may mimic toothache |
| 819* | Occlusal trauma-trauma to the incisal surface or occlusion of teeth |
| 820* | Oral ulcers : (cold sores, oral herpes, aphthous ulcers, canker sores, vesiculo-bullous)-ulcers that affect the oral cavity |
| 821* | Osseous sequestrum-bone splinters |
| 822* | Osteomyelitis-microbial infection of bone marrow |
| 823* | Soft tissue trauma, laceration-oral or facial soft tissue abrasion, contusion, or burn |

*PCs numbered 600 and higher are codes that were added to the ESP model.

Appendix A – DEPMEDS and ESP PC List

*PC# PC DESCRIPTION

| | |
|------|---|
| 824* | Pericoronitis/erupting tooth-acute inflammation of tissue area surrounding tooth, most commonly associated with erupting third molars |
| 825* | Periodontitis/periodontal abscess-advanced gum disease and inflammation which causes bone loss resulting in tooth loss if untreated |
| 826* | Post operative problem-conditions associated with previous operative treatment such as bite adjustment, etc |
| 827* | Post surgical problem-conditions associated with previous surgical treatment such as swelling from tooth extraction, etc |
| 828* | Prosthesis loose-deterioration of adhesion of a fixed or removable appliance that replaces missing teeth (for example bridges, dentures and partials) |
| 829* | Prosthesis (broken/missing)-absence, deterioration defect, or fracture of a fixed or removable appliance that replaces missing teeth (for example bridges, dentures and partials) |
| 830* | Pulpitis (irreversible)-inflammation of the dental pulp or nerve associated with throbbing continuous pain that is spontaneous that lingers even after the stimulus is removed |
| 831* | Pulpitis (reversible)-inflammation of the dental pulp or nerve associated with short lived pain following application of hot, cold, sweet, or biting stimulus |
| 832* | Root fracture-fracture or break in part of the tooth below the crown |
| 833* | Medical emergency in chair-a rapidly developing condition, usually acute, that requires immediate medical intervention. Can include anaphylaxis, syncope, heart attack, aspiration, anaphalatic shock, etc. |
| 834* | Preventive care - annual exam provided to prevent deterioration of dental health. |
| 900* | Water sanitation (Fleet)(fl)) |
| 901* | Pest control (fl) |
| 902* | Heat/cold injury prevention (fl) |
| 903* | Communicable disease intervention (fl) |
| 904* | Food sanitation (fl) |
| 905* | Common area sanitation (fl) |
| 906* | Berthing area sanitation (fl) |
| 907* | Waste management (fl) |
| 908* | Force training (fl) |
| 909* | Hearing conservation (fl) |
| 910* | Physical exam (fl) |
| 950* | Water sanitation (Marine Corp)(mc)) |
| 951* | Pest control (mc) |

*PCs numbered 600 and higher are codes that were added to the ESP model.

Appendix A – DEPMEDS and ESP PC List

*PC# PC DESCRIPTION

- 952* Heat/cold injury prevention (mc)
- 953* Communicable disease control (mc)
- 954* Food sanitation (mc)
- 955* Common area sanitation (mc)
- 956* Berthing sanitation (mc)
- 957* Waste management (mc)
- 958* Conduct training (mc)

*PCs numbered 600 and higher are codes that were added to the ESP model.

APPENDIX B

Matching OOTW Diagnoses to DEPMEDS and ESP

Appendix B – Matching OOTW Diagnoses to DEPMEDS and ESP

| Trauma Categories | DEPMEDS/ESP | OOTW Diagnoses (Unmatched are in bold type) |
|------------------------|--|---|
| Brain Trauma | 1-10 | Cerebral contus fx & hematoma severe; Cerebral contus open fx moderate |
| Head injury, other | 13-20 | Fragment wound head (penetrating) Fx facial bones multiple severe; Fx facial bones multiple severe; Fx mandible mild displacement stable Fx mandible unstable severe req'ing open reduction Wound face jaws neck open w/fx moderate eye laceration w/foreign body; Wound face neck moderate Wound scalp moderate; |
| Eye Trauma | 21-22; 311; 346-350 | Corneal laceration; Enucleation Multiple (multiocular) explosive wounds; |
| Ear Trauma | 23-24 | Hearing loss; Perforated ear drums/hearing injuries |
| Fractures | 25-30; 41; 44; 49-50; 55-56; 81-82; 112-113; 120; 127; 132-133; 322-323 | Fx ankle/foot closed displaced reduction Fx ankle/foot closed nondisplaced no reduction Fx clavicle closed all cases Fx closed tibia & fibula shaft all cases Fx femur Fx hand or fingers closed severe Fx humerus Fx lower arm Fx mandible mild displacement stable Fx mandible unstable severe req'ing open reduction Fx radius & ulna closed moderate-Colles fracture Fx rib(s) closed moderate Fx ribs closed severe multiple Fx spine closed no cord damage stable Fx spine closed no cord damage unstable Fx spine closed w/cord damage below cerv Fx spine open w/cord damage below cerv Fx spine open w/cord damage cervical Nondisplaced fx pelvis closed |
| Musculoskeletal Trauma | 31-34; 64-68; 72-74; 140-143; 148-149; 320-321 | Dislocation hip closed acute all cases; Dislocation shoulder closed all cases; Dislocation/fx elbow closed acute all cases; Dislocation/subluxation TMJ w/o fx acute initial injury Intervertebral disc disorder resist rest/trac; Intervertebral disc disorder respond rest/trac; Sprain ankle closed acute complete ligament rup; Sprain ankle; Sprain ankle closed acute ; Sprain fingers closed acute moderate no thumb; Sprain thumb closed acute severe; Sprain wrist closed acute all cases; Strains/sprains sacroiliac severe nonambul; Tear ligaments knee acute complete rupture; Tear ligaments knee acute incomplete rupture; |

Appendix B – Matching OOTW Diagnoses to DEPMEDS and ESP

| Trauma Categories | DEPMEDS/ESP | OOTW Diagnoses (Unmatched are in bold type) |
|----------------------|--|--|
| Burns | 35-40; 75-80; 90-95; 150-155; 268 | 1st & 2nd degree burns, Burn foot Burn minor Burn thermal full thick upper extrem <10%, Burn thermal partial thick trunk 10-20%, Burn thermal partial thick upper extrem <10%, Burn thermal partial thick upper extrem 10-20%, Burn thermal superficial head/neck >5%, Burn thermal superficial trunk 10-20%, Burn thermal superficial upper extrem <10%, Burns 40% BSA, Burns, necroses, White phosphorus burns partial thick <40% TBSA, |
| Wounds | 42-43; 45-48; 51-54; 57-60; 85-88; 96-111; 114-119; 121-126; 128-131; 134-137; 159-186; 312-313; 319; 389 | Fragment wounds, MIW hip iliac artery/vein descending colon Wound abdominal open small bowel, Wound abdominal wall no major debridement, Wound ankle foot toes open major debridement, Wound ankle foot toes open no major debride, Wound ankle foot toes open w/fx salvageable, Wound buttocks moderate, Wound buttocks severe, Wound external genitalia male moderate, Wound fingers open w/fx(s) not req'ing rehabilitation Wound fingers open w/fx, Wound forearm open moderate, Wound hand &/or fingers open no fx mod, Wound hand &/or fingers open no fx severe, Wound hand open w/fx all cases, Wound knee open, Wound lower leg open no fx major debridement, Wound lower leg open no fx no major debride, Wound lower leg open w/fx not salvageable, Wound lower leg open w/fx salvageable, Wound thigh open no fx major debridement, Wound thigh open no fx no major debridement, Wound thorax open not major debridement, Wound upper arm open no fx moderate, |
| Crush | 61-62; 138-139 | Crush injury finger |
| Traumatic Amputation | 69-71; 144-147 | Amputation above knee traumatic complete Amputation below knee traumatic complete all; Amputation foot traumatic complete all cases; Amputation full arm traumatic complete all cases; Amputation hand traumatic complete all cases; |
| Blast/Crush | 83-84 | Blast wound penetrating chest |
| Bites, stings | 157-158 | Fire ant sting; Insect bites or stings; |
| Drowning | 265 | None |
| Toxic Inhalation | 266 | None |
| Animal bites | 328 | Animal bites & rabies exposure |
| Snake Bite | 335 | Snake bite |
| NBC | 351-388; 390-401 | None |
| Poisoning | 613 | None |

Appendix B – Matching OOTW Diagnoses to DEPMEDS and ESP

| Nontrauma Categories | DEPMEDS/ESP | OOTW Diagnoses (Unmatched are in bold type) |
|---------------------------------|---------------------------------|--|
| Circulatory | 11; 258-260; 609; 615 | Angina; Intracranial hemorrhage nontraumatic; Ischemic heart disease; Mild/Moderate hypertension; Phlebitis deep vein involvement; Severe hypertension; |
| Cold | 187-192 | None |
| Cutaneous | 202-209; 212-215; 339; 602; 611 | Abscess; Acne sebaceous gland condition Boils furuncles pyoderma requiring surgery; Cellulitis; Common dermatosis--pruritis/urticaria; Cutaneous ulcers including leishmaniasis; Cyst/abscess all cases requiring minor excision; Dermatophytosis severe-affecting feet; Eczema dermatitis seborrheic contact affect wt bearing; Eczema dermatitis seborrheic contact not wt bearing; Folliculitis Fungal infections all cases; Impetigo; Ingrown toenail requiring surgery; Ingrown toenails w/o 2ndary infection; Lichen simplex chronicus; Pilonidal cyst/abscess requiring major excision; Pyoderma/boil/abscess/carbuncle; |
| Dental | 800-834 | Candidiasis; Caries; Dental; Fractured Tooth; Odontalgia; Routine tooth extractions Surgical tooth extractions; Unsalvageable tooth; |
| Ear Disorders | 229-230 | Hearing impairment severe Otitis externa all cases; Otitis media acute suppurative Eustacian tube all cases; |
| Externally Generated Conditions | 603-604; 607; 612; 614 | None |

Appendix B – Matching OOTW Diagnoses to DEPMEDS and ESP

| Nontrauma Categories | DEPMEDS/ESP | OOTW Diagnoses (Unmatched are in bold type) |
|----------------------|--|---|
| Eye Disorders | 219-226; 600 | Blepharitis all cases; Blocked tear duct/dacryoadenitis; Cataract ; Chalazion; Conjunctivitis moderate all cases; Conjunctivitis severe all cases; Corneal abrasion; Corneal scar; Corneal ulcer Dacryocystitis; Epiphora; Episcleritis; Esotropia; Eye infections/visual loss; Hyphema all cases; Iridocyclitis acute minimal visual impairment; Lacrimal duct stenosis; Macular pigmentary degeneration; Nystagmus; Pterygium ; Retinal detachment |
| Eye Refractory | 227-228 | Blindness; Refraction & accommodation disorders Visual disturbance; Visual loss |
| Gastrointestinal | 196-199; 243-246; 248-252; 256; 287; 606; 608; 610 | Appendicitis acute w/o perf rupture peritonitis; Appendicitis acute w/perf rupture peritonitis; Constipation/fecal impaction; Diarrheal disease moderate; Diarrheal disease severe; Dyspepsia acute all cases; Food poisoning all organisms disabling symptoms; Food poisoning all organisms moderate symptoms; Gastroenteritis; Gastroesophageal reflux disorder (GERD) Hemorrhoidal disease all cases; Inguinal hernia complicated; Inguinal hernia uncomplicated; Oesophageal/gastroduodenal pathologies; Peptic ulcer gastric or duodenal penetrating; Peptic ulcer gastric or duodenal uncomplicated; Rectal fistula; |
| Genitourinary | 269-280; 285-286; 617 | Balanoposthitis all cases; Cholecystitis acute w/stones all cases; Pancreatitis acute all cases; Pyelonephritis acute no obstruction; Pyelonephritis acute secondary to obstruction; Sexually transmitted disease genital ulcer adenop Sexually transmitted disease NSU, muculpur, trichom; Sexually transmitted gonorrhea chlamydia PID ; Sexually transmitted infections; Urinary tract infection uncomplicated; |

Appendix B – Matching OOTW Diagnoses to DEPMEDS and ESP

| Nontrauma Categories | DEPMEDS/ESP | OOTW Diagnoses (Unmatched are in bold type) |
|----------------------|-------------------------------------|--|
| Heat | 193-195 | Heat exhaustion; Heat cramps all cases |
| Infectious Diseases | 216; 263-264; 282-283; 329-334; 601 | Febrile illness acute severe; Hepatitis infectious viral all cases; Herpes simplex & zoster; HIV; Infectious mononucleosis all cases; Malaria moderate all species; Malaria severe all species Meningo-encephalitis complicated; Meningo-encephalitis uncomplicated Schistosomiasis all cases; Systemic infectious disease (leprosy/typhoid/malaria); Tuberculosis, pulmonary Verruca/plantar warts/anal/genital condylomas; |
| Musculoskeletal | 200-201; 262; 605 | Arthritis; DJD; Internal derangement knee chronic w/torn meniscus; Minor pain, including musculoskeletal, backache, and headache, due to tension, stress or overuse and not associated with other conditions; Musculoskeletal complaints/back pain; Musculoskeletal other or unspecified; Osteomyelitis; Plantar fasciitis Strain lumbosacral sacroiliac joint chronic all cases; Tenosynovitis tendonitis bursitis epicondylitis; |
| Neoplasms | 289-290 | Carcinoma;Skin Cancer; Neoplasms benign; Neoplasms malignant; Ovarian cyst; Tumor bladder; Tumors, atheromas, clavi req'ing surgery; |
| Neuro | 255 | Meniere's; Migraine all cases; Vertigo peripheral |
| Nutritional | | Anemia not caused by other conditions Dehydration; Malnutrition; |
| Ob/Gyn | 291-295; 297; 299 | Cervicitis endocervicitis w/symptomatic leukorrhea; Dysmenorrhea, amenorrhea;Mittleschmerz; Gynecological bleeding; Long menses; Mastitis; Menopause Pelvic inflammatory disease (PID) all cases; Pregnancy/childbirth Uterine prolapse; Vulvovaginitis; |
| Parasitic | 210-211; 253 | Helminths gastrointestinal (worms); Pediculosis all cases; Scabies all cases; |

Appendix B – Matching OOTW Diagnoses to DEPMEDS and ESP

| Nontrauma Categories | DEPMEDS/ESP | OOTW Diagnoses (Unmatched are in bold type) |
|----------------------|------------------------------|---|
| Pediatric | | Childhood diseases; Immunizations (OOTW) Well-baby; |
| Psychological | 301-310; 314-318; 324-325 | Alcohol dependency severe--impending or actual dt's; Alcohol dependency syndrome moderate; Alcohol misuse simple intoxication; Anxiety; Behavior problems; Non-psychotic mental disorders; Psychosis; Stress; |
| Respiratory | 232-236; 239-240 | Acute respiratory disease moderate; Adult respiratory distress syndrome; Allergic rhinitis; Asthma all other cases; Acute respiratory disease severe; Asthma w/disabling symptoms or repeat attacks; Bronchitis acute all cases; COPD; Enlarged tonsils; Pharyngitis; Pleurisy; Pulmonary; Pneumonia; Sinusitis; Upper respiratory infection; |

APPENDIX C

Treatment Tasks for OOTW PCs

Appendix C – Treatment Tasks for OOTW PCs

PC 618. Anemia, iron deficiency, not resulting from other conditions

| <u>Task No.</u> | <u>Task</u> | Field | Clinic | Hospital |
|------------------------|---|--------------|---------------|-----------------|
| OTW01 | OOTW intake/triage* | ✓ | ✓ | ✓ |
| 002 | Assessment/evaluation of patient status | ✓ | ✓ | ✓ |
| 024 | Vital signs | ✓ | ✓ | ✓ |
| 145 | Administer appropriate medication | ✓ | ✓ | ✓ |
| 197 | Charting & paperwork – patient specific | ✓ | ✓ | ✓ |
| 612 | Complete blood count (CBC) | | | ✓ |

PC 619. Cataract

| <u>Task No.</u> | <u>Task</u> | Field | Clinic | Hospital |
|------------------------|---|--------------|---------------|-----------------|
| OTW01 | OOTW intake/triage* | ✓ | ✓ | ✓ |
| 002 | Assessment/evaluation of patient status | ✓ | ✓ | ✓ |
| 024 | Vital signs | ✓ | ✓ | ✓ |
| 145 | Administer appropriate medication | ✓ | ✓ | ✓ |
| 197 | Charting & paperwork – patient specific | ✓ | ✓ | ✓ |
| OTW02 | Refer patient* | ✓ | ✓ | ✓ |
| 122 | Eye drops instillation | | ✓ | ✓ |
| OTW05 | Ophthalmic exam* | | ✓ | ✓ |
| OTW06 | Slit-lamp test* | | ✓ | ✓ |
| 339 | OR preparation | | | ✓ |
| OTW07 | Sedate patient* | | | ✓ |
| 344 | Patient preparation in the OR | | | ✓ |
| 351 | OR team preparation | | | ✓ |
| OTW08 | Anesthetize eye* | | | ✓ |
| OTW09 | Cataract excision* | | | ✓ |
| 537 | Recovery/release from anesthesia | | | ✓ |
| 123 | Eye care | | | ✓ |
| 145 | Administer appropriate medication | | | ✓ |

PC 620. Childhood diseases, including measles, mumps, rubella, varicella

| <u>Task No.</u> | <u>Task</u> | Field | Clinic | Hospital |
|------------------------|---|--------------|---------------|-----------------|
| OTW01 | OOTW intake/triage* | ✓ | ✓ | ✓ |
| 002 | Assessment/evaluation of patient status | ✓ | ✓ | ✓ |
| 024 | Vital signs | ✓ | ✓ | ✓ |
| 145 | Administer appropriate medication | ✓ | ✓ | ✓ |
| 248 | Force fluids | ✓ | ✓ | ✓ |
| 197 | Charting & paperwork – patient specific | ✓ | ✓ | ✓ |

* Indicates new task

Appendix C – Treatment Tasks for OOTW PCs

PC 621. Dehydration due to fluid loss, inadequate intake, or both and not associated with other conditions

| <u>Task No.</u> | <u>Task</u> | Field | Clinic | Hospital |
|------------------------|--|--------------|---------------|-----------------|
| 0TW01 | OOTW intake/triage* | ✓ | ✓ | ✓ |
| 002 | Assessment/evaluation of patient status | ✓ | ✓ | ✓ |
| 024 | Vital signs | ✓ | ✓ | ✓ |
| 145 | Administer appropriate medication | ✓ | ✓ | ✓ |
| 248 | Force fluids | ✓ | ✓ | ✓ |
| 197 | Charting & paperwork – patient specific | ✓ | ✓ | ✓ |
| 50 | Electrolyte levels (NA, K, CL, CO ₂) | | | ✓ |

PC 622. Gastroesophageal reflux disorder (GERD)

| <u>Task No.</u> | <u>Task</u> | Field | Clinic | Hospital |
|------------------------|---|--------------|---------------|-----------------|
| 0TW01 | OOTW intake/triage* | ✓ | ✓ | ✓ |
| 002 | Assessment/evaluation of patient status | ✓ | ✓ | ✓ |
| 024 | Vital signs | ✓ | ✓ | ✓ |
| 145 | Administer appropriate medication | ✓ | ✓ | ✓ |
| 197 | Charting & paperwork – patient specific | ✓ | ✓ | ✓ |

PC 623. Hypertension, mild to moderate

| <u>Task No.</u> | <u>Task</u> | Field | Clinic | Hospital |
|------------------------|---|--------------|---------------|-----------------|
| 0TW01 | OOTW intake/triage* | ✓ | ✓ | ✓ |
| 002 | Assessment/evaluation of patient status | ✓ | ✓ | ✓ |
| 024 | Vital signs | ✓ | ✓ | ✓ |
| 0TW13 | Patient education* | ✓ | ✓ | ✓ |
| 197 | Charting & paperwork – patient specific | ✓ | ✓ | ✓ |

PC 624. Immunizations (OOTW)

| <u>Task No.</u> | <u>Task</u> | Field | Clinic | Hospital |
|------------------------|---|--------------|---------------|-----------------|
| 0TW01 | OOTW intake/triage* | ✓ | ✓ | ✓ |
| Z612 | Administer vaccine | ✓ | ✓ | ✓ |
| 197 | Charting & paperwork – patient specific | ✓ | ✓ | ✓ |

* Indicates new task

Appendix C – Treatment Tasks for OOTW PCs

PC 625. Malnutrition due to inadequate food intake

| <u>Task No.</u> | <u>Task</u> | Field | Clinic | Hospital |
|-----------------|---|--------------|---------------|-----------------|
| 0TW01 | OOTW intake/triage* | ✓ | ✓ | ✓ |
| 002 | Assessment/evaluation of patient status | ✓ | ✓ | ✓ |
| 024 | Vital signs | ✓ | ✓ | ✓ |
| 145 | Administer appropriate medication | ✓ | ✓ | ✓ |
| 197 | Charting & paperwork – patient specific | ✓ | ✓ | ✓ |

PC 626. Minor pain, including musculoskeletal, backache, and headache, due to tension, stress or overuse and not associated with other conditions

| <u>Task No.</u> | <u>Task</u> | Field | Clinic | Hospital |
|-----------------|---|--------------|---------------|-----------------|
| 0TW01 | OOTW intake/triage* | ✓ | ✓ | ✓ |
| 002 | Assessment/evaluation of patient status | ✓ | ✓ | ✓ |
| 024 | Vital signs | ✓ | ✓ | ✓ |
| 145 | Administer appropriate medication | ✓ | ✓ | ✓ |
| 0TW03 | Range-of-motion testing* | ✓ | ✓ | ✓ |
| 197 | Charting & paperwork – patient specific | ✓ | ✓ | ✓ |

PC 627. Pneumonia

| <u>Task No.</u> | <u>Task</u> | Field | Clinic | Hospital |
|-----------------|--|--------------|---------------|-----------------|
| 0TW01 | OOTW intake/triage* | ✓ | ✓ | ✓ |
| 002 | Assessment/evaluation of patient status | ✓ | ✓ | ✓ |
| 024 | Vital signs | ✓ | ✓ | ✓ |
| 0TW04 | Auscultate lung sounds* | ✓ | ✓ | ✓ |
| 248 | Force fluids | ✓ | ✓ | ✓ |
| 145 | Administer appropriate medication | ✓ | ✓ | ✓ |
| 0TW02 | Refer patient* | ✓ | ✓ | |
| 197 | Charting & paperwork – patient specific | ✓ | ✓ | ✓ |
| 022 | O ₂ administration setup | | | ✓ |
| 023 | O ₂ administration continuous | | | ✓ |
| 049 | Start/change IV infusion site | | | ✓ |
| 050 | Administer IV fluid | | | ✓ |
| 079 | Catheterization, Foley | | | ✓ |
| 125 | Sponge/hyperthermia treatment | | ✓ | ✓ |
| 745 | Assemble material/cleanup | | | ✓ |
| 596 | Electrolyte levels (NA, K, CL, CO ₂) | | | ✓ |
| 603 | Blood glucose level | | | ✓ |
| 604 | BUN level | | | ✓ |
| 612 | Complete blood count (CBC) | | | ✓ |
| 613 | White blood cell count | | | ✓ |

* Indicates new task

Appendix C – Treatment Tasks for OOTW PCs

| <u>Task No.</u> | <u>Task</u> | Field | Clinic | Hospital |
|------------------------|-----------------------------------|--------------|---------------|-----------------|
| 620 | Urinalysis w/specific gravity | | | ✓ |
| 621 | Microscopic urinalysis | | | ✓ |
| 622 | Platelet estimate | | | ✓ |
| 635 | Mononucleosis spot test | | | ✓ |
| ZZ24 | Culture specimen collection | | | ✓ |
| ZZ57 | Clean and sterilize lab equipment | | | ✓ |
| 676 | Chest AP/PA | | | ✓ |
| 677 | Chest lateral | | | ✓ |
| 633 | Gram stain | | | ✓ |
| TBD | HIV screen | | | ✓ |
| ZZ47 | RBC morphology | | | ✓ |
| 595 | Blood gas analysis | | | ✓ |
| ZZ03 | Needle thoracostomy | | | ✓ |
| Z046 | Maintain chest tube suction | | | ✓ |
| Z042 | Insert chest tube | | | ✓ |
| TBD | Echocardiogram | | | ✓ |
| 221 | Pericardiocentesis | | | ✓ |

PC 628. Pregnancy

| <u>Task No.</u> | <u>Task</u> | Field | Clinic | Hospital |
|------------------------|---|--------------|---------------|-----------------|
| 0TW01 | OOTW intake/triage* | ✓ | ✓ | ✓ |
| 002 | Assessment/evaluation of patient status | | | |
| 024 | Vital signs | ✓ | ✓ | ✓ |
| 0TW15 | Pregnancy history* | ✓ | ✓ | ✓ |
| 0TW17 | Estimate fetal weight* | ✓ | ✓ | ✓ |
| 151 | Gynecological exam | ✓ | ✓ | ✓ |
| 0TW16 | Perform Leopold's maneuvers* | ✓ | ✓ | ✓ |
| 145 | Administer appropriate medication | ✓ | ✓ | ✓ |
| 0TW18 | Assist delivery* | ✓ | ✓ | ✓ |
| 197 | Charting & paperwork – patient specific | ✓ | ✓ | ✓ |
| 0TW19 | Perform episiotomy* | | ✓ | ✓ |
| 0TW20 | Administer epidural anesthesia* | | | ✓ |
| 022 | O ₂ setup | | ✓ | ✓ |
| 023 | Administer oxygen | | ✓ | ✓ |
| 069 | Initiate heparin/saline lock | | | ✓ |
| 049 | Start/change IV infusion site | | | ✓ |
| 050 | Administer IV fluid | | | ✓ |
| 641 | Blood type & cross | | | ✓ |

* Indicates new task

Appendix C – Treatment Tasks for OOTW PCs

PC 629. Pterygium

| <u>Task No.</u> | <u>Task</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|-----------------|---|--------------|---------------|-----------------|
| OTW01 | OOTW intake/triage* | ✓ | ✓ | ✓ |
| 002 | Assessment/evaluation of patient status | ✓ | ✓ | ✓ |
| 145 | Administer appropriate medication | ✓ | ✓ | ✓ |
| 197 | Charting & paperwork – patient specific | ✓ | ✓ | ✓ |
| OTW02 | Refer patient* | ✓ | ✓ | |
| 024 | Vital signs | ✓ | ✓ | ✓ |
| OTW05 | Ophthalmic exam* | | ✓ | ✓ |
| 339 | OR prep | | | ✓ |
| OTW07 | Sedate patient* | | | ✓ |
| 344 | Patient preparation in the OR | | | ✓ |
| 351 | OR team preparation | | | ✓ |
| OTW08 | Anesthetize eye* | | | ✓ |
| OTW10 | Pterygium excision* | | | ✓ |
| 123 | Eye care | | | ✓ |

PC 630. Tuberculosis, pulmonary

| <u>Task No.</u> | <u>Task</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|-----------------|---|--------------|---------------|-----------------|
| OTW01 | OOTW intake/triage* | ✓ | ✓ | ✓ |
| 002 | Assessment/evaluation of patient status | ✓ | ✓ | ✓ |
| OTW11 | Patient precautions* | ✓ | ✓ | ✓ |
| OTW12 | Provider precautions* | ✓ | ✓ | ✓ |
| 024 | Vital signs | ✓ | ✓ | ✓ |
| 145 | Administer appropriate medication | | ✓ | ✓ |
| 197 | Charting & paperwork – patient specific | ✓ | ✓ | ✓ |
| 676 | Chest AP/PA | | ✓ | ✓ |
| 677 | Chest lateral | | ✓ | ✓ |
| BS | Issue consumable basic setup | | | ✓ |
| OTW14 | Dispense medication* | | | ✓ |
| 693 | Interpretation of film studies | | ✓ | ✓ |
| OTW02 | Refer* | ✓ | ✓ | ✓ |

* Indicates new task

Appendix C – Treatment Tasks for OOTW PCs

PC 631. Well-baby examination

| <u>Task No.</u> | <u>Task</u> | Field | Clinic | Hospital |
|-----------------|---|--------------|---------------|-----------------|
| 0TW01 | OOTW intake/triage* | ✓ | ✓ | ✓ |
| 002 | Assessment/evaluation of patient status | ✓ | ✓ | ✓ |
| 024 | Vital signs | ✓ | ✓ | ✓ |
| 0TW21 | Weigh and measure baby* | ✓ | ✓ | ✓ |
| 145 | Administer appropriate medication | ✓ | ✓ | ✓ |
| 197 | Charting & paperwork – patient specific | ✓ | ✓ | ✓ |

PC 835. Dental caries; tooth unsalvageable

| <u>Task No.</u> | <u>Task</u> | Field | Clinic | Hospital |
|-----------------|---|--------------|---------------|-----------------|
| 0TW01 | OOTW intake/triage* | ✓ | ✓ | ✓ |
| 002 | Assessment/evaluation of patient status | ✓ | ✓ | ✓ |
| 024 | Vital signs | ✓ | ✓ | ✓ |
| 0TW22 | Perform nonsurgical extraction* | ✓ | ✓ | ✓ |
| 145 | Administer appropriate medication | ✓ | ✓ | ✓ |
| 197 | Charting & paperwork – patient specific | ✓ | ✓ | ✓ |

* Indicates new task

APPENDIX D

Supplies Needed for New OOTW Treatment Tasks

Appendix D — Supplies Needed for New OTW Treatment Tasks

Task OTW01. OTW intake/triage

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|--|--------------|---------------|-----------------|
| 6135008264798 | Battery nonrechargeable alk 1.5v aaa 24s | ✓ | ✓ | ✓ |
| 7520009357136 | Pen ballpoint retractable med pt black | ✓ | ✓ | ✓ |
| New | OTW intake form* | ✓ | ✓ | ✓ |
| New | PDA or laptop* | ✓ | ✓ | ✓ |

Task OTW02. Refer patient

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|--|--------------|---------------|-----------------|
| New | OTW Referral Form* | ✓ | ✓ | ✓ |
| 7520009357136 | Pen Ballpoint Retractable Med Pt Black | ✓ | ✓ | ✓ |

Task OTW03. Range-of-motion testing

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|----------------------------|--------------|---------------|-----------------|
| | No supplies needed. | ✓ | ✓ | ✓ |

Task OTW04. Auscultate lungs

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|---|--------------|---------------|-----------------|
| 6515013146694 | Stethoscope Littman classic II 28 in lg | ✓ | ✓ | ✓ |

Task OTW05. Ophthalmic examination

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|---|--------------|---------------|-----------------|
| 6545014586178 | Otoscope & ophthalmoscope set deluxe soft | ✓ | ✓ | ✓ |

Task OTW06. Slit-lamp test

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|----------------------------|--------------|---------------|-----------------|
| 6505011591493 | Fluorescein strips | | ✓ | ✓ |
| 6540014599226 | Handheld slit lamp* | | ✓ | ✓ |

*Indicates new supply

Appendix D — Supplies Needed for New OOTW Treatment Tasks

Task OTW07. Sedate patient

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|---------------------------------------|--------------|---------------|-----------------|
| 6505001375891 | Diazepam inj 5mg/ml 2ml syringe w/ndl | | ✓ | ✓ |

Task OTW08. Anesthetize eye

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|--|--------------|---------------|-----------------|
| 6505002719220 | Phenylephrine 2.5%, 15 ml, sterile* | | | ✓ |
| 6505002999666 | Cyclopentolate 1%, 15 ml, sterile | | | ✓ |
| 6505005824737 | Tetracaine HCl, 0.5%, 2 ml* | | | ✓ |
| 6505005986117 | LidocaineHCl inj 2% 20 mg/ml 20ml vial | | | ✓ |
| 6505008718289 | Tropicamide 1%, 15 ml, sterile* | | | ✓ |
| 6505012366458 | Lidocaine 2% inj, 10 ml vial* | | | ✓ |
| 6515007542837 | Needle, 26 ga, 1/2" long | | | ✓ |
| 6515014417251 | Atkinson needle, retrobulbar* | | | ✓ |

Task OTW09. Cataract excision

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|---|--------------|---------------|-----------------|
| 6505000640724 | Acetazolamide sodium inj, 500 mg * | | | ✓ |
| 6505001335843 | Prednisolone acetate 1%* | | | ✓ |
| 6505002260799 | Hyaluronidase, 150 USP, 1 ml* | | | ✓ |
| 6505008804949 | Acetazolamide, Diamox Sequels 500 mg* | | | ✓ |
| 6505009635355 | Dexamethasone 4 mg/ml or Cortisporin | | | ✓ |
| 6505010904724 | Phenylephrine HCl ophthalmic solution* | | | ✓ |
| 6505010908125 | Ocucoat* | | | ✓ |
| 6505010932384 | Epinephrine 1:1000, 1 ml ampule | | | ✓ |
| 6505011197693 | Balanced Salt Soution (BSS), 15 ml* | | | ✓ |
| 6505011439509 | Dexamethasone drops* | | | ✓ |
| 6505011566575 | Diamox tabs, 250 mg* | | | ✓ |
| 6505012139514 | Gentamycin, 40 mg/ml, 20 ml | | | ✓ |
| 6505012314806 | Ceftazadime, 1 g vial* | | | ✓ |
| 6505012478801 | Vancomycin HCl USP, 1 g, 20ml vial | | | ✓ |
| 6505012803581 | Ocufen(flurbiprofen) .03% gtts, 2.5 ml btl* | | | ✓ |
| 6505013041008 | Dexamethason ophthalmic solution* | | | ✓ |
| 6505013463066 | Apraclonidine HCl ophthalmic solution* | | | ✓ |
| 6505013556475 | Balanced Salt Soution (BSS), bag* | | | ✓ |
| 6505014703141 | Miochol, 2 ml, sterile* | | | ✓ |
| 6515003343800 | Hemostats | | | ✓ |
| 6515003417200 | Needle driver, locking | | | ✓ |

*Indicates new supply

Appendix D — Supplies Needed for New OOTW Treatment Tasks

| | | | |
|-----------------------------------|---|--|---|
| 6515006198219 | Needle driver, Webster (bend cystotome) | | ✓ |
| 6515006639801 | Fox shield | | ✓ |
| 6515007822614 | Handle, eye knife blades* | | ✓ |
| 6515007822616 | Handle, Beaver blade* | | ✓ |
| 6515010464303 | Blade, 69B* | | ✓ |
| 6515011077575 | Eye pad, sterile | | ✓ |
| 6515011151731 | Scissors, corneal castro angled right* | | ✓ |
| 6515011151732 | Scissors, corneal castro angled left* | | ✓ |
| 6515011157667 | Forceps, .12mm suture | | ✓ |
| 6515011205013 | Needle driver, castroviejo* | | ✓ |
| 6515011249775 | Scissors, Vannas capsulotomy straight* | | ✓ |
| 6515011397668 | Forceps, Colibri | | ✓ |
| 6515011648882 | Cannula, manual irrigating and aspiration* | | ✓ |
| 6515012052365 | Hook, muscle, Jameson dsgn* | | ✓ |
| 6515012056821 | Speculum, lid small* | | ✓ |
| 6515012056823 | Speculum, lid large* | | ✓ |
| 6515012069242 | Retractors, iris, flexible* | | ✓ |
| 6515012148746 | Lens extractors* | | ✓ |
| 6515012151026 | Cannula, 27 gauge, angled* | | ✓ |
| 6515012503545 | Blade, 15 deg/75 blade* | | ✓ |
| 6515012860405 | Fluid administration set | | ✓ |
| 6515012915445 | Blade, keratome* | | ✓ |
| 6515013204473 | Forceps, tying, straight | | ✓ |
| 6515013274842 | McCannel suture, 10-0 Prolene, 8"* | | ✓ |
| 6515013503568 | Blade 3 mm slit (angled blade)* | | ✓ |
| 6515013641432 | Forceps, tying, curved | | ✓ |
| 6515013702219 | Scissors, blunt, tenotomy Westcott* | | ✓ |
| 6515013765179 | Blade, crescent, angled, bevel-up* | | ✓ |
| 6515013832688 | Suture, 10-0 nylon, 12" | | ✓ |
| 6515013934185 | Cystotome* | | ✓ |
| 6515014621219 | Forceps, Blaydes lens holding | | ✓ |
| 6515014630340 | Coagulator, cordless* | | ✓ |
| 6515014630353 | Eraser tips for Mentor cautery* | | ✓ |
| 6515014696145 | Forceps, Utrata capsulorhexis* | | ✓ |
| 6515014827975 | Spatula, cyclodialysis* | | ✓ |
| 6515014828402 | Scissors, straight, iris* | | ✓ |
| 6515016027091 | Extension set, 33", no port* | | ✓ |
| 6516014630342 | Cautery sleeve, sterile * | | ✓ |
| 6520013414043 | Isodent tissue glue* | | ✓ |
| 6530012685142 | Sponge set cataract surgery sterile disp* | | ✓ |
| 6540014587838 | Tonometer ophthalmic handheld* | | ✓ |
| MC50BD, 6.5mm, PMMA haptics | IOL, posterior chamber, diopter range +15- +26 in 5-diopter steps (Alcon)* | | ✓ |
| MC50BM, 6.5mm, prolene haptics | | | |

*Indicates new supply

Appendix D — Supplies Needed for New OOTW Treatment Tasks

| | | | | |
|-----------------------|--|--|--|---|
| MTA4U0, 5.5mm, 13.0mm | IOL, anterior chamber, Kelman-style (Alcon)* | | | ✓ |
| P/N 00-08680 | Eye sponge, Weck cells (Xomed)* | | | ✓ |
| P/N 020-505 | Cannula, Olive tip (Sparta)* | | | ✓ |
| P/N 10113-11 | Scissors, Dewecker, sharp (Princeton)* | | | ✓ |
| P/N 1033 | Glide, IOL lens (Visitec)* | | | ✓ |
| P/N 33633-06 | Gouge, Stille (Princeton)* | | | ✓ |
| P/N 44306-00 | Cannula, Simcoe (Princeton)* | | | ✓ |
| P/N 5977 | Drape, plastic, eye (Microtek)* | | | ✓ |
| P/n 9081G | Suture, prolene, 10-0, 4" (Ethicon)* | | | ✓ |
| P/N E1620 | Forceps, Kuhnt fixation, curved (Storz) | | | ✓ |
| P/N J401G | Suture vicryl 8-0 (Ethicon)* | | | ✓ |
| P/N OP0911-992 | Forceps, Masket capsul angle (Instrumed) | | | ✓ |
| P/N OP0923-302 | Sinsky lens manip. hook (Instrumed)* | | | ✓ |
| P/N OP20620 | Irrigating loop, lens, vectis (V. Mueller)* | | | ✓ |

Task OTW10. Pterygium excision

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|--------------------------------------|--------------|---------------|-----------------|
| 6505010057327 | Mitomycin 5 mg vial* | | | ✓ |
| 6505012366458 | 2% lidocaine w/epinephrine* | | | ✓ |
| 6515000678242 | Silk 4-0 suture (round) | | | ✓ |
| 6515003447920 | Handle, Bard-Parker* | | | ✓ |
| 6515013765179 | Blade, crescent * | | | ✓ |
| 6515013832688 | Nylon 10-0 sutures | | | ✓ |
| 6515014605954 | Jaffe curved lid retractors* | | | ✓ |
| P/N 031-351 | Bur Lempert diamond 1.5 mm (Sparta)* | | | ✓ |
| P/NE0999 | Newell lid retractors (Storz)* | | | ✓ |

Task OTW11. Patient precautions

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|--|--------------|---------------|-----------------|
| 6515007822621 | Mask surgical nonwoven fabric disp 50s | ✓ | ✓ | ✓ |
| 8540007935425 | Tissue facial 2-ply 36x24" white 100s | ✓ | ✓ | ✓ |

*Indicates new supply

Appendix D — Supplies Needed for New OOTW Treatment Tasks

Task OTW12. Provider precautions

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|---|--------------|---------------|-----------------|
| 6515007822621 | Mask surgical nonwoven fabric disp 50s | | ✓ | ✓ |
| 6515013648553 | Glove patient exam/treat med prepwdr 100 | ✓ | ✓ | ✓ |
| 6515013648554 | Glove patient exam/treat lge prepwdr 100s | ✓ | ✓ | ✓ |
| 6532011536517 | Gown isolation disp yellow lge elastic cuff | | ✓ | ✓ |

Task OTW13. Patient education

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|----------------------------|--------------|---------------|-----------------|
| | No supplies needed | ✓ | ✓ | ✓ |

Task OTW14. Dispense medication

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|--|--------------|---------------|-----------------|
| 6530011688096 | Tray tablet and capsule counting plastic | | | ✓ |
| 6530000000070 | Cup, medicine plastic 1oz | | | ✓ |

Task OTW15. Pregnancy history Task OTW16. Perform Leopold's maneuvers Task OTW17. Estimate fetal weight

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|----------------------------|--------------|---------------|-----------------|
| | No supplies needed | ✓ | ✓ | ✓ |

Task OTW18. Assist delivery

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|---|--------------|---------------|-----------------|
| 6505005986116 | Lidocaine HCl inj USP 1% 10 mg/ml 50ml | ✓ | ✓ | ✓ |
| 6510007863736 | Pad isopropyl alcohol impregnated nonwvn cotton/rayon white 200s | ✓ | ✓ | ✓ |
| 6515003346800 | Forceps hemostatic Kelly 5.5 in straight | ✓ | ✓ | ✓ |
| 6515003640900 | Scissors general surgical Mayo 550 in str | ✓ | ✓ | ✓ |
| 6515006903198 | Holder suture needle Debakey 7 in serr | ✓ | ✓ | ✓ |
| 6515007281172 | Suture abs sz 3-0 27in lg ndl gut 36s | ✓ | ✓ | ✓ |
| 6515012569688 | Syringe aspirating newborn infant bulb | ✓ | | |

*Indicates new supply

Appendix D — Supplies Needed for New OOTW Treatment Tasks

| | | | | |
|---------------|--|---|---|---|
| | type 3 oz disp 50s* | | | |
| 6515013648553 | Glove patient exam/treat med prepwdr 100 | ✓ | ✓ | ✓ |
| 6515013648554 | Glove patient exam/treat lge prepwdr 100s | ✓ | ✓ | ✓ |
| 6530001101854 | Towel pack surg blue/green ster 96s | ✓ | | |
| 6530002998069 | Bowl surgical sponge aluminum 3x6" recessed | ✓ | | |
| 6530012285852 | Surgical pack disposable OB pack w/tbl cwr drapes sterile 4s* | | ✓ | ✓ |
| P/N 62110 | Blanket baby 100 poly disposable* | ✓ | ✓ | ✓ |

Task OTW19. Perform episiotomy

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|---|--------------|---------------|-----------------|
| 6505005986116 | LidocaineHCl inj USP 1% 10 mg/ml 50 ml | | ✓ | ✓ |
| 6510007863736 | Pad isopropyl alcohol impregnated nonwvn cotton/rayon white 200s | | ✓ | ✓ |
| 6510010100307 | Pad povidone-iodine impreg 1 x 2 in brown | | ✓ | ✓ |
| 6515013418725 | Scissors episiotomy Braun crs ob type 5.50" o/a lg ang to side* | | ✓ | ✓ |

Task OTW20. Administer epidural anesthetic

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|---|--------------|---------------|-----------------|
| 6515011486997 | Anesthesia set epidural 10s 2 components* | | | ✓ |
| 6510007822700 | Sponge surg12-ply gauze 2 x 2 in sterile | | | ✓ |
| 6510009268882 | Tape adhesive surg woven 1in x 12 yd 12s | | | ✓ |
| 6505001493500 | Bupivacaine HCl inj USP 0.25% 50 ml vial* | | | ✓ |
| 6505011210705 | Fentanyl citrate injection USP 20 ml ampul 5 ampuls per box* | | | ✓ |

Task OTW21. Weigh and measure baby

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|----------------------------|--------------|---------------|-----------------|
| P/N KM48313 | Tape measure* | | ✓ | ✓ |
| P/N 32149 Moore | Baby scale* | | ✓ | ✓ |

Task OTW22. Nonsurgical tooth extraction

*Indicates new supply

Appendix D — Supplies Needed for New OOTW Treatment Tasks

| <u>NSN or Part No.</u> | <u>Supply Nomenclature</u> | <u>Field</u> | <u>Clinic</u> | <u>Hospital</u> |
|------------------------|--|--------------|---------------|-----------------|
| 6505010645769 | Benzocaine gel 20% 1oz or 28 g bottle | ✓ | ✓ | |
| 6505011461139 | Lidocaine HCl & epinephrine inj USP 8 ml cartridge 100s | ✓ | ✓ | |
| 6505012143062 | Ibuprofen tablets USP 800 mg 500 tab/btl | ✓ | ✓ | |
| 6510007219808 | Sponge surg cotton gauze 4x4 in sterile | ✓ | ✓ | |
| 6515003280700 | Elevator periosteal 7.75" lg curved blade | ✓ | ✓ | |
| 6515003373900 | Forceps gauze pad holding Foerster 9 in str | ✓ | ✓ | |
| 6515003417200 | Holder suture needle Collier 5" lg straight jaw box lock CRS | ✓ | ✓ | |
| 6515008388946 | Suture nonabs sz 3-0 1.50' lg silk | ✓ | ✓ | |
| 6515010108761 | Syringe cartridge dental aspirating side loading screw cap | ✓ | ✓ | |
| 6515012346838 | Applicator wood or plastic 6" lg | ✓ | ✓ | |
| 6520001805965 | Forceps tooth extracting #17 cres 6.250" lg | ✓ | ✓ | |

*Indicates new supply

REPORT DOCUMENTATION PAGE

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13. SUPPLEMENTARY NOTES

14. ABSTRACT (maximum 200 words)

Operations other than war (OOTW) and combat scenarios differ in doctrinal, cultural, political, personnel, and logistical aspects. Relying on the parameters of combat scenarios to plan medical requirements for OOTW missions might result in overstocking of some supplies and equipment while underestimating the requirements for others.

The goal of this study was to identify those diseases and injuries that occur during OOTW but not during combat operations, and to link them to corresponding treatment tasks and supply requirements. The ultimate objective of this research effort was to add an OOTW component to the Estimating Supplies Program (ESP), thus enhancing its value as a planning tool.

A literature search was conducted to find published disease and injury statistics representing a variety of OOTW scenarios, and this information was organized to form a database. Researchers compared the OOTW diagnoses with diseases and injuries that were already defined in the ESP model.

The literature search produced 19 sources that included disease and injury information for OOTW. To organize these statistics, PCs used in ESP were identified either as trauma or nontrauma. The trauma PCs were divided into 18 categories, while the nontrauma PCs formed 20 categories. There were 15 OOTW diagnoses that did not match already-existing PCs, and all of them were nontraumatic. In addition, 22 new clinical tasks were introduced.

In this report, the diagnoses were classified by type rather than by frequency to determine which diseases and injuries are unique to OOTW. Additional research is needed to quantify populations at risk and to calculate rates of occurrence for humanitarian assistance, disaster relief, and peacekeeping

14. Subject Terms

diseases and injuries, treatment tasks, supply requirements, OOTW scenarios

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